

<211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-G8

 <400> 16383

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 ccgtcgcgaa gctcgcgctc acggccgcgc tcgtctgcgg ctctggcggg cccgctgccg 180
 tcgtcgtcgt cgttccggcc gccgctcagg ccgtcccggt cgtccgtcct cctcctctct 240
 ccctgcaagg aaggccctta gcgtcctcca ctcttacgc gcagtcccag aagctgcagc 300
 ttggcctcga caagctcgga aatatcaggc catgcgcgtc aaacaaccgc ggggtgcgtgt 360
 cgagcaaccc gcggggattc tcgggccctt tctcctcgac agggctcatc cgggga 416

<210> 16384
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-H10

 <400> 16384

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 aatgaactgg gacttgatga tcaggtggct gtcagtgcac gctcacacgt gggagggtcat 120
 aagtatgcag gaaatgtcat ctttttcagt tctgatgcca agggagaagt gactgggtcat 180
 tggatatggtt atgttgttcc tgatgatgtg cctgttttgc tgcataaaca tattggacaa 240
 ggagaagttg tggaccatct atggagggga cagatagggt tatctgtgga gcagcagaag 300
 cgagctctcg agcttcggaa catggtaa atgtggcgaag aatcccttga agaaaccaga 360
 acagatgggt cttcttttcag ccctgcagca gctgggtggat gctg 404

<210> 16385
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-H11

<400> 16385

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gatttcggac tcatggctgt ggcacgagga tgtccagatc tgcaggagct cgttttgata 120
ggggtcaacc ccaccgtgct gagccttcgg atgcttgggtg agcactgccg gttgctggaa 180
cggctggcac tttgcgggtg tgaaactgtg ggggatgctg agatcatttg cttggctgag 240
cgatgggctg cgctcaagaa gctctgcac aatggttgcc ccgtgtcaga tcctgggatg 300
gaagcactac atgggggggtg ccccggttta gtcgacgtga atctgaagag atgtcgtgga 360
gtgtca 366

<210> 16386

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H4

<400> 16386

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agtcatacga cgtgtatatt ttctcctcct gtaaagccat atgtttttcc tagacaagcc 120
ttgtgtcatt cacatgggat gccgtttggc cttctgttaa agatcattgc acagaccgac 180
tccaggaaac aaaattttat ttttgcaata ttgcattgta tgataagtcc tcc 233

<210> 16387

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H5

<400> 16387

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ctagctccat cactcggaga agataagacc cagagtgtcg cctgggtccat ctccaatcca 120
gcaaggcggg cagacgagcc gagagtgaga caaccatggc gtctctggcc ctccgccccg 180
tcatcccggc caccaccgt tcatccagga cctcaccgat cgtcgttggc tcccgtcct 240
gccacgtgc cagactccac cgtggctttc gtcgcgggcg cctcatcacc tgcaaggcgg 300

agccgagcgg cggcaacagc accctcgagc tgggcgcagg ggccgcaggg ctgggatcga 360
gcgcgggtcgt ggcgtgggtcg ctctacacgc tgaacacgat ggggtgcggc ctgcc 415

<210> 16388

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H6

<400> 16388

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aatgggtcgat tctcctagag aggtgattgg tgctgttctg aagcatctgg gctcatcata 120
taacacagtt gatatggaaa tggacgtcaa tgggtggtaga gcagcagtcc taaacagctt 180
tacgcaacta cagaagcagg tccaactatt cgacagcatg aactatctga agtcgttttag 240
tgttggagat gtatgggtcc cagtgggttg gagcagcgcac gtgattcctg ctgcaaagcg 300
aatgttcaat gtcgcggtgg ttgttcccaa gtcagggagc agcctatggg ctga 354

<210> 16389

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-H9

<400> 16389

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atttagcggc gccaaaagga gaaatacaag tctcaggagc attactgata gtaaagacaa 120
cagacaacag acacctgaag aggccgacgc tgcgctaccc aaacaaacag gagacaccgc 180
agcaaacagt ccacgcaata acagcaacaa ccgcatacac aacttttagtg gcaagttatc 240
caggcaactgc aaaagcagac acgggatcgc atcattttctt ctt 283

<210> 16390

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A1

<400> 16390

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gagagatatt tctgcctccc tatcgtgggt cgtccccaat ggcctttggg cgcagaccat 180
ctttgctgct tgtctatgct gagaataaat gtgaacggtg cccctggacg ctggatccat 240
gctggttttg gacacgttgt ctttttgtgt ttaacttata tgetaccgtc ctgtaacgaa 300
ttcactaagt tctagttctt ttgtgctttg ttaagaatat aaacaatgag gtttcaattt 360

<210> 16391

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A10

<400> 16391

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cagatgctgg tggccgcccc ttggacttct caaggggtgt ttacctggaa ggtttggatc 120
gaggcataat agcttggtcc ggagcattgc ttcataaag aattttaaat gctgttgatg 180
cgagctggaa ctcatcaaca ctatgaacca aacaataagg tcttaggaga gaatggcctc 240
atgttgggtca tagcatggta aattggaaaa ctgatttaag tattcattgt ggtgctgttg 300
tgactatggg gtaacaccgt aacagtgcag catataagat agtaatagat tgtc 354

<210> 16392

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A11

<400> 16392

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cctcgtcacg ctccacgacg acagcatcgt gatacgggtc ggcggcgacg acgcccgcgt 120
cgagttctac cacgcgggtg cgccgtctct gtcgctcggc gacttctctg tgcccggcgc 180
cgacgtgccg acccgtttga cgaacggcct gttcccatg gaccggacgg tgagctacgg 240

cggccacggc cgcccgtca cggcggtcca gtcaccgtg ctccgagacg gcgccgtgtt 300
 cgtcggcttc gtcgccaacc acgccgtcgt ggacggcacc tccttctggg acttcttcaa 360
 cacgttggcc gg 372

<210> 16393
 <211> 339
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-A12
 <400> 16393

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 cgtgcggcg gagagctact gcctgtgggc gcccgggcg cagtcgcccgg cgcccgcgtc 120
 cccgcgcccg tgccggaaga gcggtccac gggctccgtc ctccgctggc gcgcacacag 180
 cgaccgcctc gtcggccgca gccacagcga cggcaaggag aagttcgtgt tcctcaccgc 240
 cgttccggat ccgcctcgtc ctagtaggag taacaaggaa gtggatgaag gagggcgga 300
 cggcgaggca ggcagcctgg cgcacagat gagatatta 339

<210> 16394
 <211> 206
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-A3
 <400> 16394

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 cgagcacacg agaaccacgg cggccgcccg actttacggc ggtttcaaag ggaagcttgg 120
 agtctctgat tccccgcgc tgcagctcaa ccgcatccgt atcacactct catcatcgaa 180
 cgtcaagacc ttggggatag tttgtg 206

<210> 16395
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-A4

<400> 16395

gaaccaaggt ttgcttcagt gtatgggagt cagccattct tctatagaaa ctgtgttgcg 60
gaccactctg aaatatagct tgggtctcaaa gctaactgga gctggtggtg gaggctgtgt 120
gttgactcta atáccgacgt tatcgtccaa tattgttctg gagaaagtca ccaggagct 180
cgaatctcat ggttatcgct gcttcaaagt tgaggttggt gggcgagggtc tocaagtatt 240
ccgaggataa cataacactc aacctatttc aaggagatgt tgtaccatac ttttagaaga 300
tggcttacct gcactgaagc tgttttagatt ctcttcttga gttattccaa gatcatgata 360
ggatattctt ctctaagcc 380

<210> 16396

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A5

<400> 16396

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gcggttctaa agtagaggga ttgttatgtc ttttgaaca ggccattcac agtggcaggg 120
cacttgttct gagtgaagat gagcttgctg attcagatct ggtctatgaa aagtctgttg 180
cttttacaaa gtcaattccg cgaagactgg tttttgagaa tactogaagg aagtccagtg 240
ccaggagaaa tgtgccagac aatcatgcaa gaactaaaac acatcttgta gaaaataaaa 300
tgttgagcag tcctgttgaa aataaattta tcgttaatgg aggatctgca atgcagacaa 360
ttgaccatgg gcaagagttt 380

<210> 16397

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A6

<400> 16397

cacgccggtt acttttactg aggttttagc tctggtttat ttgatgtcca taggttttct 60
tcctttgctt gtgatctcaa cacatccatc actatgattc atttgtgtgt gatacatatt 120

gcaacttcag ttaaaatcca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaagaaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaaaa agggggggcc 300
 ccccaaaggg ttcaaacttt atttaccggg aaagtaaagg ctaaaccctt tcaaaggggc 360
 cccaaaagtg aatttaaggg ggccgcgttt aaaagaccgc ggaacggg 408

<210> 16398
 <211> 166
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A7

<400> 16398

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 tgtacgtagt attgoggaga tcaatcgaat cgtttggtc gtcgtcattc tatcgatgta 120
 catacattat atatgatgaa agacatatat aatcgtttct ttcagg 166

<210> 16399
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A8

<400> 16399

cccacgcgtc cgcccacgcg tccgagagga agaagaagaa cccagccaaa tcctcagtct 60
 tcaggctgct cacagctcgt gccgtccact ctcccccgag gcagtctctt gcgttcgctg 120
 ctcgacatgg cgctccaggc ggcgacgtcc tttctccctt cggccctctc cgcgcgcaag 180
 gaggggtcgg tgaaggactc ggcgtcgttc ttgggtgttc gtctcgcggc ggatggcctc 240
 aagctggaca ccaccgtctt gggcctacgc accgtgaggg tgagcaggtc ggcggacatc 300
 cgcgcgcaga cggcagcggg gtctctccccg tcagtgacct ccgcgtcgcc gtctggcaag 360
 aagaccct 368

<210> 16400
 <211> 354
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-A9

<400> 16400

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aagctgtact gcataactag cttcgtaatg cttttccct tctttctaca atgatctgct 120
gcagccttgc atgctgactt aagttcatct ggtgcagggt gccactccgg tggaccagta 180
tctgttaaaa gacccatgga gaggggcgaa gcactgataa cccaacacc tttgctcttc 240
aagtagggga gcagatcaac aatggagggtg tcattgatcc cgtantgaca ataagataga 300
atcacgtcca tcgagcctgg tgctacaagg tccaggacat aaaggtagat gctg 354

<210> 16401

<211> 240

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B1

<400> 16401

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ggaaaaccgg ctttacattt tgcattgtggc tatgttgaag tgtgcataaa atctccttga 120
ggcggggggc acaattgatg ccctagataa gaacatgaac actgcgttgc acgatgctgc 180
tgggtatggt cggaaggaat gtgtggatca tctgttgaac tatggtgctg cagtcacgct 240

<210> 16402

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B10

<400> 16402

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ctatggtgcc atcataggat ttgcttttac agttccaatt atggtgtagt tcaaaaattg 120
ctcgactaaa ctgcggtgta acagttaa at gggcagatgg aataatgtaa tcatactgtt 180
ccct 184

<210> 16403
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-B12

 <400> 16403

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 acttctaatt ctacgatggc agcaaattta tttgaaattg gtcataacca tccttaaaac 120
 agttgagtca catgccgcac taccacagtt cgtgaacatt acacacaatc cctcgcctca 180
 caaacagaag catttatctt tggcaatatg cggcggggag tcatggactg agaaacgtat 240
 cagcacataa tacttcacgg cagaaccttt catgcttcag cagccttctg tgaagggctg 300
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<210> 16404
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-B2

 <400> 16404

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 gtcattggagg ccaaggtggg ggtcagctcc tgcggccacg acggggcctt cggcgccacc 120
 ggcgtcaaga ggctccagga catcggcatg atcagcgccg tgcccgggat gaaggcgctc 180
 gacatgaacg ccgcccagga cgagatcgtg cgcctcacgc gcgaggctgt gcccggcatt 240
 atcgtcaccg ggatggaggt cgcagagatc gacggcgccc cgaggatggg cccgacgttc 300
 ggcgccatga tgatctccg ccagaaggcg gcgcacctgg cgtgaaggc actgggcagg 360
 cccaacgc 368

<210> 16405
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-B3

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tcgagatcca cctcgccggc acctgctacg tccacttcgg ctcccacctc gtctactacg 120
agaggaccat aaccggcaag ctctccaagg gcgccatctc ggacctctcc ggcgtccagg 180
ccaagaagct ctctctctgg gtctacgtca cggggatggt cgcgcacccc gaccagggca 240
ccatcgagtt ccaggccggc ttcattctcg agtcgctatc ggctctgatg tttgacgagg 300
tgccacactg cggttccagc gttggcgcg agctgcgcgg cgcggctggg gtgatcggcg 360
agcttgggct 370

<210> 16406
<211> 384
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-B4

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ccttcggcga gggccgcac accatgcgca agaccgtggg caagcccaag gtggcgggct 180
ccggcagccc ctggtacggc cccgaccgg tcaagtacct cggcccttc tccggcgagc 240
ccccgagcta cctcaccggc gagttccccg gcgactacgg ctgggacacc gccgggctgt 300
ccgccgaccc cgagaccttc gccagaacc gcgagctgga ggtgatccac tcccgtggg 360
ccatgctcgg cgcgtcggc tgcg 384

<210> 16407
<211> 367
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-B5

<400> 16407
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ttgctgtcaa gattacatca tcgcaatttg gtttctcttg ttggctattg tgatgaagaa 120

gacgagcaga tgctgggtta tgagttcatg cccaatggta gcctacgtga tcattcttct 180
gctaagactg aaagacctct gagctttggg cagagggtcc atattgcact tggagctgcg 240
aaaggacttc tatatctaca taccgagggg aatcctccta tatttcatcg tgatgttaac 300
gccagcaata gtcttctaga ttccaagttt gtagcagagg tggtgactt tggcttttca 360
aagcttg 367

<210> 16408

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B6

<400> 16408

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agtgccagtc gtgtctcccg ctacgctgac actttttctc catcgctcga ctccatgctc 120
agcgctctca ccatcaccgc gcctctcttc gccggtgttc gccgggcata cgctcaacct 180
cgccaccgtg ggacttacct cgccttcaaa ccgtgttcgc cgcagcccag ccacgtctta 240
cctctacgct cagtaagaaa ccgctcgcgc tacagcctcg tcgcgtcacc attctgcagg 300
cactgagctc caccacctc ggtgaatgcc accgtcccct ttttcactgt gcaactcggga 360
tcagcttcct ggtgc 375

<210> 16409

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B7

<400> 16409

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ggcggggggcg gcctggcggc cctgagggcg gcgcgcgcgc tgaaggagac gacggggatc 120
gtgggccttg aggtgggtgcc taacgcgcga gaggttcttg tagggctcta cgagcgcacg 180
ctcaaagaga tcaaggccgt ccccgaagac gagggttacc gcaaggccgt tgaatccttc 240
accggtcacc gcctccagat ctgccaggag gaggaggact ggaagcgcac cgaggaccga 300

atcggatgcg ggcaggtcga ggagctcatc gaggaggccg aggacgagct caagctcatc 360
gctaaaatga ttgaatggga tccatggggg gttcccgatg 400

<210> 16410

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B8

<400> 16410

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tgggcctctt tctctcatc aatatataag acagatctcc tgtctgattg tttcaaaaaa 120
gtttaatcta aaaacttaag ttgatgaaaa aagtgggcaa tttccctgta ctgtgtactc 180
cagcatctac gageccggat tctagtaatt cagataaggg cgcgggcggt ggcgggtggcg 240
ctggcggcga gcctggacga gccgtagagg gtctcctcga accggatgat ctcggttcttg 300
gacccgtagg ccacctgggt ccgctcgctg agctcgttga tcacctgtc cagcaccgac 360
tgcttgccgt cgtgctgta cccgccggcc ttctccatca aga 403

<210> 16411

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-B9

<400> 16411

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tctcttcccc acggcgcgcc ctctccctct tgtttctctg ctggccgccc ctctgctcg 180
ttctttctggc agccgcgcgc agccagcttc tctccagtc gcgcctgctg cccgctcggc 240
acctatctcc ctgcggccac tctcctttga cagcgccctg ctcccttcgc cgcgcgctcc 300
tcagctccgc ccggtgctcc tccatggggc tcggttctt cctcctaaag tcccttcgt 359

<210> 16412

<211> 405

<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-C10

<400> 16412

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cgcgctgggg ctgcagaagc agaactcgtg gtcgccggac atcgagcgcg acgaggcgtg 180
ggagcgccgg ggcgagggca tgcgccggcg gggcacggcg ctgcgccgcg cccgcagcgt 240
cacggacgac gacctcgacg agctccggcg ctgcatcgac ctgggcttcg gcttcgagcc 300
ggcgcccgcc gccgcgtgcg cctgcgcctg cgccgggagg aaccgcctcc tggagacgct 360
gccgcgctcg aactccaaaa aaccgttcaa agggggggcg cggaag 405
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<210> 16413
<211> 341
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-C11

<400> 16413

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accagcaacg agtcgctgga gaatgccttc gctcctacg gcgagatcct cgactccaag 180
gtcatcaccg accgggagac ggggaggtcc cgcggttcg gcttcgttac cttctcctcc 240
gagaactcca tgctcgacgc tatcgagaac atgaacggca aggagctcga cgcccgtaac 300
atcacggtta accaggccca gtcccgtggc ggccgcggcg g 341
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<210> 16414
<211> 379
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-C2

<400> 16414

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 gaagcggcag cgacaaaggt gaaacctctg ctgactggga caaggcatgg gctaagttca 240
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<210> 16415

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-C4

<400> 16415

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 gaaaagagag cgggaaattg aacaaggaat caataaaaga ttgtctagga agcttgatag 180
 gaaatggaag cagagcattg tggtcagacc accaccatct ctaaggggga acaaagagga 240
 gtagaaagcc gcaaaaagag ggcaatgtgc aaaagtcgtt tcatgcgagt gttgcaggaa 300
 ggtcncttca tgatttcaac ccttattgctg ttgttatgta ttccatgttt acattttgct 360
 aagcattgct atctgaatct gaatt 385

<210> 16416

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C5

<400> 16416

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 cttgagcatc aggttgtgag aggtgttgtg gaaagtttga aaattattac acgccaagca 180

agtttgagag tggcagagta tgctttccat tatgccaagg ccaatggccg ggaaagagtc 240
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cgtgaagtgt ctgaaaagta ccttgaaatt caatacgagg aggtcatcat tgacaattgc 360
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<210> 16417

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C6

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cgtctctgct cgggggggttc accaagtcgt tggccatgac ggtgctctcc gagatcgggg 180
acaagacctt cttegcgcgc gcgattctgg ctatgcgcca tcccaggaaa ctcgtattgg 240
caggctgttt aactgcacta atagtcatga cagctctatc ggcttctcta gggtgggttg 300
caccaaattc gatttcacgt agatggactc atcatttgag cagtctactg ttctttctat 360
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<210> 16418

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C7

<400> 16418

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tgcctataga acaatggact catttggttg tgtgcgagag aaaacctgta tcatttttgt 180
ttatggacta ttacttatga gacagcataa tccgcaggaa gcacggaacc gccttgcaag 240
tggtttgaaa atagcgcacc aacagttggg taacatccag ttagtttctc agtatttgac 300
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a

361

<210> 16419

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C8

<400> 16419

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gtagatggag aggtctggaa gaaagtgtga tatgtggata ggcttgtgca gctgttcaga 180

tatgtaccac gcgagcaact tacaattcct gactttgttt ttcagcacga tctggaggtg 240

aatggtggga ggggcctaata ttagaccca agaacaagc acatatacca gaggacgtcc 300

agttgatata tgccagttct gaggcctgaa gtttgttagt tcttgcaactg taccattcta 360

atgttcactt gtaatttatt ccacgtgttc at 392

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C9

<400> 16420

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agtttcctgt gtgggtgtttc tctttttcac agcccttgtt acactttttc ttccttaatt 180

gtaagaccac atgatctata aaggtcatat ttacatgtgt tgtttagata aatggatatg 240

ttctacttgt acgtt 255

<210> 16421

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D1

<400> 16421

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ccagggaacc cataaacatt accagagacg atagggtttt tcagcaccgc ccactggaag 180
accatgtccc tctgtttacg aagaatgggg caattaacag ttcattggaga tcttctcagc 240
aaactaacat gtatgggtgtg tcacatgggtg actttgggtc cgcaagggtc gcttcattcg 300
tgccagcacc tgctgaacct acagctggat cattttcaag atcttatgcc gagacgtcca 360
ccgctgcaca acg 373

<210> 16422

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D10

<400> 16422

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actgggtttg gttttgctat aatcgtgata tattccgatg tac 163

<210> 16423

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D11

<400> 16423

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tttgtttcca tgggtgtgta ctctgatggg tcatcagggtg ttccttctgg actcatttat 120
tcattcccag taacatgcag tgggtggtgaa tggaaaatcg ttcaaggcct cccgattgat 180
gagttctcaa ggaagaagat ggatgccact gcccaagagc tgacggagga gaagacgctt 240
gcttactcat gcctcgagta aattctacca caccagaga gcaattgcc ccccaatggt 300
ttgaataaaa aaagaaactc caactcgatt catagattct cactcaga 348

<210> 16424
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D12

<400> 16424

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gtggcggttg ccgcgccttc gcgcgcgggc accttcgccg tggtcaggte cgccaaggte 180
gaccgctgcc aggagcccg cagcctagca gcaaccgagg ccaggcccg cgcgcagga 240
cgccgcgcgc tcattgctgc ggctgctgcg gggccgtgg cagccatcgg cggcgccggc 300
gccgcatgg cgggccccaa gaacgggacc cccgagcgca agaa 344
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<210> 16425
<211> 347
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-011-Q1-E1-D2

<400> 16425

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accagctct accggtcccg cgcttcgctg ggcaagccgg tgaaggggct tggcctgagc 180
atgggccgcg agcgcgcccc ggcgagcatt gtgtgccagg cggcgagcag catctccgcc 240
gaccgctcc ccgacatgga gaagcggaag ctgatgaacc tctcctcct cggcgccatc 300
tcgttgccca ccgtcgcat ggtcgtcncc tacggcgct tcttcgt 347
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<210> 16426
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D3

<400> 16426

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gtcctccag aagcctcggc aacgtcagca acggcggaag gatccggtgc atgcaggtgt 180
ggccggccta cggcaacaag aagttcgaga cgctgtcgta cctgccgccg ctgtcgacgg 240
acgacctgct gaagcatgtg gactacctgc tgcgcaacgg ctggataccc tgacctgagt 300
tcagcaaggt cggcttcgtg taccgcgaga actccacctc cccgtgctac tacgacggcc 360
gcta 364

<210> 16427
<211> 160
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-D4
<400> 16427

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tggcctctc ctctccagc agcagcagca gcagctcggc 160

<210> 16428
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-D6
<400> 16428

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cgtgaggtgc cgccgaaatt tggctcccca caacgtcaga aactaattga tgagatccat 180
gagcaaatgc tcagtaaggc tcctctatc ccccaaacgc tgccaaatgt gccaaacgag 240
gagctcgcac ctgactcttg tgatgagcat gcagacaagg tagatgaagg tggcaacaca 300
tccaagtcca tgtcaggctc gtcgagtggc cctcctgtgc ctgaagctga atcgctggct 360
gcagaaaaca cgggtgaagc atc 383

<210> 16429
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-D7

 <400> 16429

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tgcaaatacg cgcacggcgt cttcgagtgc tggctccacc cggcgagta ccggacgcgc 180
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gagctgcgcg ccgtcaaccc gtccgcggtc tccgtcagga tgcattccac cgtttcgtcg 300
acgcgtcctc cgcgcgccc aa cggactcgac atgggcgcca tgcataaccc gggctgggtgc 360
tcctcaccgg ccagcacgct ca 382
  
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<210> 16430
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-011-Q1-E1-D8

 <400> 16430

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cctgcttact acatgaagca agctgcatac cagatcaaag aaattttaat atggggctgg 240
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gggcaatgtc tacaatgtct cctacattca gatcaagana gctaattggga tgtacaagcc 360
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<210> 16431
 <211> 367
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D9

<400> 16431

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cggtcctttg cctggatgac aactatgcct acttgtacga atcagccgc accgcttggt 180
ttcactactc tttcagttgt tcgtttcaaa tcgttgaatt cttgattgct atttgtttct 240
tccgttcgaa gaatcgtgga cgagagcacc aagaaggcag cggccgttga ccctgtggaa 300
ccggagaagg ttctcaaggc ggccggcgag gtcggcgctt acgtcgactg cgttctcacc 360
acccatc 367

<210> 16432

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E1

<400> 16432

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tacccttca gtgctggcat caatctagct tgtcgcaaaa acatacaaga ttacatgcgg 180
caccacctgc atattgaaga aagccaagtt gcagacatgt gcctggacct gtacaaggaa 240
tatggcacca caatggctgg ccttaaggca ttaggctacg aatttgacaa cgatgagttc 300
catgcaactg ttcattggtac cttgccatat cacaacctga ggccctgaccc tgttttgagg 360
accctcctac tttc 374

<210> 16433

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E10

<400> 16433

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 .cggggttcgt gtggctgcgg caggccgccg gcctgaccca caccttcggc tccatcggca 300
 agcaggtgtg gtacgacagg gaggtgacgg cgttcgtgga gcccgggcgg atgcacggcc 360
 tcgccggg 368

<210> 16434
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-E11
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 cggcggccaa gaagcgggcc ggccggcgtca cgtacgtgga gggcatgaac gcctacagcg 240
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<210> 16435
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-011-Q1-E1-E2
 <400> 16435

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<210> 16436
 <211> 369
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E4

<400> 16436

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<210> 16437

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E5

<400> 16437

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aatggatttt gacatcgaag aacattgcgg aagaagaatg gagtgaacat tcagactgtc 180
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<210> 16438

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E7

<400> 16438

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tgggctgggt tctatcaagg gtttgtaag tctattagtt taccatgtag cagaaaaact 360
agtgggacgt gaagtttttt ca 382

<210> 16439
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-E8
<400> 16439

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atgatgatac gtgacttata atctaagtgg gc 392

<210> 16440
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-011-Q1-E1-E9
<400> 16440

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cgtgcggga acccctgcgg cgagccgtgc gtgtacgcga gcccgccgcc gccgcggtc 240
tactaccgc cgccgccgcc gcccggtgta~~c~~ tcgccaccac cggcgccgga gtactaccgc 300
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<210> 16441

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 16441

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cacgcgcgat agtttcccca tgtacgaagg agagcccagc tcgtccaaat cggtcgatgc 240
gaatcggatg caacattttg ggaatgattc tgggttcagc ttcaagacgc catcaccgcg 300
tgaacaacca acggtgccgc ctcttactgc anggcaaata aatgtgggaa gcgatgattg 360
tgttgctgtt c 371

<210> 16442

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F10

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agccgaggcc gagggggccc tcgagcggat ctgggacctc cacgaccgcc tcagcgatgc 180
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cgtcaagggc ggcgcgcgcg gcggcgagg gcaagcgctg accgcgcgcg cggaagccct 360
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tcgag

425

<210> 16443

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F11

<400> 16443

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agatgtccac ggcggagcgg caggagatgc agatgaagaa gagcaagctt ctcaacatgc 120
ttgacgaggt ggagcagcgg taccggcagt accacgggca gatgcaggcg gtgtcgtcgt 180
cgttcgaggc ggcggcgggg gccgggtcgg cgcggacgta cacggcgctg gcgctgcgca 240
ccatctcgcg gcagttccgg tgtctgcggg acgcgatcgc gtcgcaggcg cgcgcggcga 300
gccggggcgct gggccaggac gcggacgccg ccg 333

<210> 16444

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F12

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ggccacacct gttcagatgc ctgatttgat cgatacaggt gatcaagatg gtctggcaac 180
aagttctgga caggaaagca atggacaaaa aaatactggg aaagcatatg tttcttcagt 240
tgatgatttg cttggtggtg aacctattgc tgatacaagt gtcactgctg atagcaatgg 300
aagcgatcca tttgcagatg tatcgttcca tgaggtagag gctaaggaga ctaatgatct 360
cttctcagga ttgatagtag aagaaaaa 388

<210> 16445

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F2

<400> 16445

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tcacttgacac cgggggagcg gagatgaagc cggttggtggg gatcgtgggtg tcgaacaaga 120
tgcagaagtc ggtggtggtt gcagtggacc gtctcttcca caacaaggta tacaaccgct 180
acgtcaagcg cacctccaag ttcattggcac acgacgatga cgactcctgc aacattggcg 240
accgggttag gctggatcct tctaggccct tgagcagaca caagcactgg gttgttgctg 300
aaattctccg cagagctaag gtgtacgttc caccagctgc aacagcgtcc agtgaacgtg 360
gtagcaaatc tcaacaa 377

<210> 16446

<211> 359

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-F3

<400> 16446

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cggacgcgtg ggagagacca taactctgag cagaggccag aagagcggtc taatcagaga 120
gctctgaagt ctggtcttgc ttaccttgtt cgtagtggtg ggccgaagga tacaggtgca 180
gcaacagaga tcaggaatct gaccagacgg aagagaagga tccangaggt tggagggctc 240
ccaactcctg tttacacgtc ggatacggat gcttggagggc aagttagcgc tgtagttctt 300
tttggaacga agggacagaa aaggccgaga ggagatgaac cgtaggagtt gccgccttt 359

<210> 16447

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F4

<400> 16447

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 gggatatgaa tctgaatagt catatctatt ctgagtttgt agtcactgtc aaattgcctt 180
 ctaaaaccaa agattccttt gtatcgcaag aaaactgtca gaattcgtct gatctatcac 240
 tgggtgttgaa ctctagttca cctgattgta tttcacagaa gagttccact gttggagcag 300
 caagagtgca gtaattcaga ttctgtgatt tgactcaata attgacatga ttgcattatt 360
 gagattataa cttggagctg 380

<210> 16448

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F6

<400> 16448

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 tcccggcgac gaggtgccg cggccgacgg cccttcggcc gcgcgcgcgg cccgctcgcc 180
 gacgacgctg tcgcacgtcg tgttcggcat cggcgcgtcg gcgcggacgt gggaccagcg 240
 ccgcgggtac gcggagctgt ggtggcgccc cgccagatg cgcgggcacg tctggctcga 300
 ggagcagccc gcgagcccg ggcccgcggc gacgtgcccg ccgtaccgcg tctcggcgga 360
 cgcgccccgg ttcggggacc gc 382

<210> 16449

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F7

<400> 16449

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 gagccccgac aagtactgga gccccacccc caagaccggc gtgttcggcc cggcggcggt 180
 ggaccccaag ctggcagctg gtggcgcgcc ggacgcggc gcggatgctg caggaggcac 240

ggtgctggac cagaaggtgt ggttccgccc gctcgaggac gtcgagaagc cgtccccgc 300
 cgcgtagacc gcgcggcgct gctagcccag cccacactgc tgctcgctca taaaaagggc 360
 ggcgggagag cctggcaggc actct 385

<210> 16450

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-F8

<400> 16450

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 tcgcgggggcg gccgggggtc ggtgtcggtg cgcagcacgg tgtgggactt cgtggggcgcg 180
 gacctggtgc ggccggacct gggcaagtgg ctggacgacg tggagaagca caaggcgctg 240
 gccatctacc cgccgcacga gggcggctac gagggccgct acctgaaccg cctccgttac 300
 cagggctact acttcctcga cctctccgcy cgggggctcg gcgaccgga gaccacgctc 360
 accaaggtcc accccgtctg cccgcct 387

<210> 16451

<211> 345

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-F9

<400> 16451

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 acaatgctga aaagataggg aaacgtcagg tcatgatcag gccgtcatcc aaggtgatca 180
 tcaagttcct gacggtcatt cagcgccatt gttacattgg cgagttcgag tacgtggatg 240
 accacagagc tgggaagatc gtggtggagc tgaatggaag actgaataaa tgtggtgtta 300
 ttagccacg ttttgatgta ngtgttaagg agatcgaggg atgga 345

<210> 16452
 <211> 87
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G1

 <400> 16452

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 attatgtcag gatctattga cagcttt 87

<210> 16453
 <211> 174
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G10

 <400> 16453

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 gagatgtacc agtatttgtg aagaaggag catgggctca gagattgtac cagtagtgta 120
 cgtatttgca tgcattgctt ggtccttctg gacattatca atgaaatatg ctgt 174

<210> 16454
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G12

 <400> 16454

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 gctctggaag ctgctcggg tctgggggta caactcgatg tcatctgcac ttgctcggct 180
 tgggtggataa ggaggcttgt actgcgaatt cccgcaagac cgagggtacc tatgggtgtcc 240
 ggtatcagca cttatgacac tgtttctgct actgaggcta tcaactgtctg cctcatactg 300
 gttgcgggta ttgatcgggt tcagcacgga cgaagaggct ctggctttcg ctgctgcttt 360
 c 361

<210> 16455
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G2

 <400> 16455

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 ggaggaagtt tgttctttta acaatatgtc gagggaggag aatgtttaca tggccaagtt 120
 ggctgagcag gctgaaaggt atgaggagat ggttgagtat atggagaagg tggctaagac 180
 tgtagatgtg gaagagctca ctgttgagga gcgtaacctt ctgtctgttg catacaagaa 240
 tgtgattggg gctctccgcg cttcatggcg cattgtttct tccattgaac aaaaggagga 300
 gtcccgttaag aacgaagagc atgtgaacct tatc 334

<210> 16456
 <211> 89
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-011-Q1-E1-G3

 <400> 16456

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 attatgaaaa ccaaaacgag aatccaacc 89

<210> 16457
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-011-Q1-E1-G5

 <400> 16457

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 ggaggggttg tgcctatagg atcgatcatg acaccatcga ggagtgcggc gacggaggcc 120
 gccacctgct gctgggcctc ggcaccagga tactcgttgg cgtgccggac aactcccgcg 180
 gctgctccga gctgctgtcg tgggcgatcg gcgccgtcgc caagcccagc gactccgtcg 240

tcgccgtgca cgtcctcgga gggaggggga ggaagcggag gctgcagaag gccaacgcct 300
 tcgtcatcta catgctcggc gaattcgtca aagcttgtga tggcaancag attaatttgg 360
 gggccaacgt gatatgc 377

<210> 16458

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G6

<400> 16458

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 gtaatctcca agataggctc caagggcggc ggtggaagga gcaccagggtg aggaagatca 120
 ccgacaaggt gttcgaccgc ctcacggagg acgcccagaa gcgcgacaag gaggccctca 180
 gattcgagga ggtctacatc gccgtcctct gcgtctacaa tgacatcaac aagtacttgc 240
 cggggccgca ccacgacccc ccgtccaagg agaagctcag ggccatgatg gaggagtacg 300
 acgtgaacct ggacgggctc ctggaccgag aggagtctgc ggagttcatc cggaagctga 360
 ccgcagactc gctgtgctcg a 381

<210> 16459

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G7

<400> 16459

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 tccccgcccc tacagcgccc cggcgaccgg cgccgcttct cgtcgtccgc gctaagcgcg 180
 ccggcagcca ggcccttget gccgcccct cgcgtcagcc cgcgaaatccc agcgcgggtcc 240
 cgaagcggga cgtggaagaa gaggaggagg aggtcgagga ggagatgccc tggatccagg 300
 acaaggcgct ggacctcgtg gagttcactg gcaccgtcac acaggccatc ccagggcccc 360
 gtgt 364

<210> 16460

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G8

<400> 16460

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gtctgcccgg cgcggcgggc gttccgcggc ctcgctgca gggccgctac cgtcgtcgcc 180

cccaagtata caacacttaa gcccttggt gatagagtgc ttgtaaagat taactcttcc 240

gagaagaaga caactggtgg aatcttgctc cctacgactg ctcagtcag acctcaagg 300

ggcgaggtag ttgctgttg agaaggaagg ataattggg ataagaaagt tgatgtcagc 360

at 362

<210> 16461

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G9

<400> 16461

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tcgtcgggat ccaggacttg ctagatcagc caaatcctgc tgaccctgct caaacagacg 120

gatatcacct ttttatccag gateccacag aatacaagag gcgcgttaga ctgcaggcga 180

agcagtatcc tgcattgggtc tgagagcttc gccctactag ggatccatgc tgcacatccg 240

catagttggt gctagtgtct tgaatgaaag accaaatgta acatggtgct tggagaagta 300

actatcgcca ttgtggactg tgtgtctttt aacagcctta ttaactgttt ggagtgtgtg 360

<210> 16462

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H1

<400> 16462

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ggcagacctg ggagttaatg atcacgtggg cgtcagtaca tgcgacagcg tgggatgcc 120
taagtatgca ggcggtgtca tcagtttcac ttctcacacc atgggacacg tgactgggtca 180
ttgttat 187

<210> 16463

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H10

<400> 16463

attgcgacgt ggacgatatc agcgacgtgt tagctcacgt cagagatgga taacatgttg 60
tagataatgg aaaccaagtt ccggatttgg cccc 94

<210> 16464

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H11

<400> 16464

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tTTTTtGtGt tTTTTTTTTt tTTTTTTTTt tTTtattttt tTTTtagacg ccccaagcaa 120
acaagccccg aaaccgtccc caaagacaca caagggaaag ttacaggtaa aattacatta 180
aacaaggtt ccaacaactt tcttaaagta caggaaagct tccatttcca aaatggccaa 240
aaacccccaa caaagcaagc acctccgaca ccaaaagcca tccatgtttc ccaagttgtt 300
aaccaagcgc ccaacacggc aaaa 324

<210> 16465

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H12

<400> 16465

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gatgttcgct ttgaaggaac gcccgaagtg gatgaacatc acctcgcttg acgagctcaa 120
gacaaaagtg gggcacgtca tctgatgat tctacttggtg aagatgttcg agaagagcaa 180
gatgggtgacg atagccacgg ggctggacct cctcagctac tcgatctgca tcttcttgtc 240
gtcagcttct ctctacatcc tgcacaatct tcacaagggc gaccatgagg agtgacgaga 300
gtgaaatgcc gaattttagt cctattcgag agagagttga cggctctgtc caataatcaa 360
tactgg 366

<210> 16466

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H2

<400> 16466

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ctggggcggtg ccgcacagct atagatagct agcagtgttg catagaaatg gacagcgcca 120
gcagcctcgt ggacgacacc agcggcagcg gcggcggcgc gtgcacggac aagctaaggg 180
ctttggccgc cgccgcccgc tccgcctcgg ggccaccgcc ggagcgcgatg ggcagcggag 240
ccagcgcggt cgtggacgcg gccgagccgg gcgccgaggg ggactccggc tccgcgccgg 300
cctccgtcgc cgccgtcgcg gcggggcgtg gcgggaagct gccgtcgtcc aggtaca 357

<210> 16467

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-H3

<400> 16467

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acaaggtgat cttggccac tgcacccctt cactgctgga gtgtatgttg cactaatgat 120
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cctgatcgag tccgtggact cgttgaaccc gttcatgcat gctcgcgggtg tggccttcat 240
 ggtcgataac tgctccacaa ctgctcgttt gggatctang aagtggggcac cacgcttcga 300
 ttacatcttg acccaacagg cgtttgtgac tgttgacaag aaagcaccga tcaaccaaga 360
 cctcatcagc aac 373

<210> 16468
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H4

<400> 16468

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 cggtcgcggc tgcggaagca gcagcacctg gacgagctgg ccaggaggc ggcgctcctg 180
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 gtcgagcagg agaacgccgt gtcgcgcgt cgcgcgcgc aactcggcgc ccgcctccgc 300
 tccgtcaacg aggtgctccg cgtcgtcgag gagttcagcg gcgtcgccat ggacatccag 360
 gaggaggtgc cgccggcgga cgaccgctg ctccgc 396

<210> 16469
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H5

<400> 16469

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 ccaagtgacc gaacaagctg agctctgctg ctacagttgc ttgccctgt gccaaactgg 180
 caggaggtag gtagcttata gcatagcagc tagagctaag ctgtggtgcg tagcggcagc 240
 tagagctagc ttgtgcacgc gcaggtgcgt gctagctagc tagcttgta gctgtgtact 300
 agctgtgtag cagcagcagc agcacagtag cagtagtcgg tgataaaagg aatttctttg 360

gggacatgt

369

<210> 16470

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H8

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gcgcgctacc ttttgcctct ccgcccggctt cggtctgtct tctccgtcct ccatattcgg 180

cgacgccacc gaggtcgcca acgtgccacc gctcaccacg cccaacctct tcgtcagtgg 240

cctttcaagg ttaacgacag atgagaagct ccagggtgcc tttgctcctt tcgggaggct 300

ccttgaagca aaagtgggta cggatagagt ttctgggagg tcaaagggtt tcggtttcgt 360

gagatat 367

<210> 16471

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H9

<400> 16471

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aggtccttca ccgtgcgcgc ctctctccgc aaggccaccg gcaaccgcgc cgtggcaatg 120

gctgccagcg ccctgcttgc cggcgggtgcc atggcccagg aggtgctgct gggcgcatgc 180

gacggcgggc tcgtcttcga gccagccag ttcaccgtca aggcgggcga caccatcaca 240

ttcaagaaca acgcccggctt cccgcacaac gtcgtcttcg acgaagacga ggtgccgagc 300

ggcgctgcag ccaccaagat ctcgcaagag gagtacctca acgcgccagg cgagacct 358

<210> 16472

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A1

<400> 16472

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tcgagtgcag ccatatgccg tgactttcgt tacgcacacg gccgataagc tgcacgtggg 120
ccgcgacatc gtcggttctt cagtggcatt ccagtcactg catctcgacg tgcct 175

<210> 16473

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A10

<400> 16473

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gaggccgccc gaaccaaggt catcgacctg gagatcgacg agggcctcta cttcaccgag 180
gccgccgaga agcaaattggc gccgccgcca cagggcgctg ccggcggagc aggcgagctc 240
cagaagaaga ggtacgtgac gttcgctgac ccgccgacgg tcgccaccac cgccgccgcc 300
gcgtgccggg cgccaccgtt gccggacgtg gtgatggagg tgcaccgcgc gccgccccac 360
cagctc 366

<210> 16474

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A11

<400> 16474

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atcgactcgt tggttgacgt cggtggtggc catggtggcg ccgccgccac catcgccgcc 180
gccttcccc acctcaagtg cagcgtgctt gacctccgc acgttgctgc cggtgctccg 240
totgatggca acgtgcagtt cgtcgaggc aatatgtttg agagtattcc acctgcaacc 300

gctgttttcc tcaagaaaac tctacatgac tggggtgacg atgagtgtgt caagatattg 360
aagaattgca agcaaagcat atctc 385

<210> 16475
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A12

<400> 16475

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tgtccgctca tctcgcgtg aggtaggact aggatgtgtg cgatttgttt ttttaattat 180
gcaatccatg ttgggataaa aaatgtagca gggattagtt ttataaagaa aaaaaattaa 240
attactcccc ttgcatatgt atgatgtcca tatgcccttc taaagtataa gtgttggtta 300
gttcatttta tccctctatc tatttgaatt ggtttttagt ttaagtttcc tggtttagtag 360
ttgatgccac aacttaacct aggaaatata 390

<210> 16476
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A2

<400> 16476

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aaaaaaaaa catctagttt gcgtgttcatt attcaattca gagacacttc agtaatgctt 240
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ggatgcttcc tggtagatgc cggtagagaa cagggatcca tggaaagaat atcaggtggc 360
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accgcac 427

<210> 16477
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-A3

 <400> 16477

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cgcggtcggg cttctacctg gcgccgtccg ccacgtccag catggacgcg ccgtcgtcgg   180
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gcttctcctg cgccacggcc gactgcggca cgggcgacgt cgcggtgcaa ggccgccggc   300
cggcgccctc ggtctcgctc gtcgaggtca cgctcgccgc gccgggcagc cgcaggccgg   360
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<210> 16478
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-A4

 <400> 16478

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tcgtgatggg tggggtcggt ccattgcttc gaggggaagag ccgcaccggt gggtcagtcc   180
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<210> 16479
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A5

<400> 16479

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ggtcctcgtg tgctgctccg gcctctgccg cggcgagcgg ctcggggcga gggagtgcga 180
ggacctgggg ttcaccggcc tcgctctctg ctccgactgc aacgcgctct ccgagttcgt 240
caaggaccaa gagctggtgg aggattgcc aatatgttgc accgaggatt cagatgattc 300
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<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-A7

<400> 16480

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gcggccggcg ggtcgggaat cccggaggtc aaggcctacc tcaacggcgt cgacgcgccc 180
aacatcttct cgctgcggac cctcgctgtc aagggtgcgc gtgtgtgttc cgttcccatc 240
ctcctgcctt cgccgtcgct ttcgcttgct gcagtgcaca tgctcncctc agcatttctt 300
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<210> 16481

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A8

<400> 16481

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tttgggtggac tatattgttt cctgcaccaa agaccacgtt caggcagaaa agatgctaga 180
gctcctacag tcgatttttg atgttgaggc tgagatgttt gttctcaaga tgtggcggat 240
gctgatattt gagattaaga aagtcgaatc tggactatca ggaagagcaa agtaatgaag 300
ctaagcctgt taccttgtat gacctttgat ttacatcact caactgtggg catgcttgta 360
aggtcatact gtactaaaca agcatcagaa accatTTTTA atgatgctga ttggacgggt 420
ttgattctac 430

<210> 16482

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A9

<400> 16482

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acatagctgc tgccagtcgt ccgatgatct gcacgtcaca tgtccaaact tcaagccgtc 180
tcgcagcatt aaatatcaaa cctaggggtgc cttggggccag ttcaaccaca tgttcgtagc 240
ttcactctaa cgatcagcgt cccctgcacg acaccggcca aggcatccac ggtgggtggag 300
ctgccaccgc agttgcagat ccggtatgcg ccgtcgacgt ccgccggggg tagcggttaag 360
caacacggga agggcaaatt 380

<210> 16483

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-B1

<400> 16483

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caggcgccct tctacaccta cgacgccttc atcgaggccg ccagcaagtt ccccggttcc 180
ggcaccaccg gcgacgagca gacgcgcagg cgggagctcg ccgccttctt cggccagacg 240

tcncacgaaa ccaccggtgg atggggcgact gctccgggtg gaccgtttgc ctgggggatac 300
 tgccgggtga aggaacagaa ccgacgggac ccacctacta tggacgaagg accatacagc 360
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<210> 16484

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B10

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 attggcacta gtgtcacgaa tgcagcgctc aaagcaaaga gggctgttga taaggacctt 180
 gaggacgaag tcatggaaat tccagtcgtc tcaactagtg ttgcctatgg tgtatacatg 240
 tccatttcta gtaacctcag gtatcagctt ctggctgggtg tgatcgagca gaggatgctg 300
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 ggc 363

<210> 16485

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B11

<400> 16485

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 catctgtgca acatcagcct gccagttacg ggttcacata aggaccacca ctggggcgggc 180
 ccagcattca ttatgtcaca cccgagtttc aggacatcg cgcgtgcttt gccaatattca 240
 tcgggcgtaa agtggaaacat cctgatcgtc gcaagtactc ctgtcaagta caatgcaggg 300
 tgcgcctgt agaacctgct acgatctgga ctgcaagaac catcgagtcc caacac 356

<210> 16486
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-B12

 <400> 16486

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 gaagcgaagg cgagcatgca tcacgacccc aacccttcg acgagggcag cgccgaggac 180
 aacccttct caaatggagg agccggaggc ggcaagcagc agtacggctt cgggccgact 240
 gagcccgtcg ggttcggcgg cgctagcagg ggcgacgccg tcgttgacgt cccgctcgag 300
 accatggggg actctcgag caaggtgaag gagctctcgt cgtgggaatc agatctga 358

<210> 16487
 <211> 132
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-B2

 <400> 16487

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 ttacagggga tg 132

<210> 16488
 <211> 275
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-012-Q1-E1-B3

 <400> 16488

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 cgccccacc tcacgccccg ccccgacgcc cgccgcgcgc ccacgacgag gcgcccgcgc 180

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ggcggccaca tcgcgcgcct cgagttccgc cgccg 275

<210> 16489
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B6

<400> 16489

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tggaccaacc aaactgctcc tttgtataag ctcttaatta aatctcctct ccgacaatgt 180
ctgaatgtat atgctgagtg agtggttaatt tggctctgtaa tataacctgt tgctttgtca 240
gaaacgatgt tgtgcaataa cattgttgctc ggtgggtgttg ttgtatgtgc tagtgatgtc 300
tctcaatata tgtatgtcta tcagatcaaa ctgtttgtgca atcaagcttt tcgtgc 356

<210> 16490
<211> 405
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-B7

<400> 16490

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tacctttttc ctttggctct cacatactga actcgtggaa aatgtacata tacatacaac 180
atatgttcgt ctgtgtataa catgtgggtga tcagttggta gacatgcttt gtaaggatgt 240
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atgtgtgtgt ttgttcttta caanatagcc actatctgtt aaaat 405

<210> 16491
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-B8
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 t 61

<210> 16492
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-B9
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 gtcgtcccac acgactacgt cgacggccag ctccggtgca gccggcggtg gcgcacgacg 180
 ctctccgatg aggtgcccgt cgcaccgccg ggcggcggtc tccccggacc cgtgactcga 240
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 gtcgatggcc tcacgtagca gatggagcgt gtggtatacg tagtatgagg atgatgctga 360
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<210> 16493
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-C1
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 ccgtgtccgc atcttcgtcg acatcgtcgc ccagacggcc cacatcggct gataatatat 300

aagctagccg ctatttcctt tccttgcccc agaactttga aataatatat atacgatgaa 360
ataacgcggg catgccgaat 380

<210> 16494

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C10

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ccgctctgct ttgagaatga tagaggatgc tgaggagagg ggattgattt cgcttgaggt 180
cacaacactg gtggagccga cgagtggtaa catgggggta gggttgggtcc tcttcgctat 240
tcagagaggt tacaggctca ttgcagtcac gccggctaaa tactcgcttg acaagcagat 300
cttgctgagg ttcatgggag cgagagctata cttaactgat ccgggc 346

<210> 16495

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C11

<400> 16495

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gtgatcctgg acggctccac ggtgcgcggc ttctgtggcg acgaggcggc cttcgcgcgc 180
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gagctccggc gcgcgctcga gtccttcgc ctcctcgacg gggggggtt cgggtccgcc 300
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<210> 16496

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C5

<400> 16496

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cctccgtccc caccctcgc tactccgccc ccacccctc cgcctccggc ctagccactg 180
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tgtctaattc cgacgttcag cttccatctg ctttgatttg tttgtcgagg cagatgctga 360
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<210> 16497

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C6

<400> 16497

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cagaaggccg ggcgaaggcc cccggcggtg tcgtcggccg cggccgcgga cgcggagatg 240
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gcggcggtgt cgcgcgccat ctccccgccg gcgagctcct cgcacgggcg gcgcgaggtg 360
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<210> 16498

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C7

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<210> 16499

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C8

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 cttccggtgg tggcggttgt ctccggcgag accgcgcgcg acccgggcta cacgcacgct 180
 gaggaggcat gcagcgggtg gctagaggca gaggcggaga aagcaacggg gctgggtgcct 240
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 cgcgaggaca tgccggagtg ggagtcatca gagggctccg gcgagttcct gcagctggcg 360
 cgggtccatgc gcaacggctc cgacatcgct aacttctcgg agctccggct cactgcgcac 420

<210> 16500

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C9

<400> 16500

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 cggcgtggac cagggctgcg acggcggcct catggacaac gccttccagt tcgtcgcgcg 180
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ctcgtccgcc gccgccgcg gggccgcgtc catccggggc cagcaggacg tgccgcgcaa 300
 caacgaggcc gcgctc 316

<210> 16501

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D1

<400> 16501

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 ttggattcta gaagacattc tgtatataaa acagcactcc taacagttca gtctagaacc 180
 tagaagtaga aactgttatt gttatgatac ggaagcactt taggggaaca gttggagaca 240
 catttttat 249

<210> 16502

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D10

<400> 16502

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 ctactgtgct agaagcagtt gaggtgagaa gtggatcaga aggatatgtg ataaagatgc 180
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 tcattgtttt ggagatgcca agcgttcttc tgatggcagc tattegtaat gtccacattg 360
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<210> 16503

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D12

<400> 16503

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gacggggcac gggccgtggc gcgtccgtag tgtgcgctgt ccaaggccag gacacgacca 300
tccaagatgt gacaaagtca acatggcaat cactcgtgat cgagagcgag cttcctgtcc 360
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<210> 16504

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D2

<400> 16504

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gctctaagga tgcaaataga ggttcagaaa cagcttcatg aacaattaga ggtgcaaagg 180
cagttgcagc tacggataga ggaacatgca agatacttgc agaaaatact agaagagcag 240
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cctgaatcga cgtcagacga gagaactgaa tccgaggtag acaccatttc tccgcggcca 360
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<210> 16505

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D3

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<210> 16506

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D4

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 cagtcatgct ggtctcaccg actgatggaa ctgatgagat cgccaaccct tttcttgcgg 180
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 aacgatgtgt cccagtgggg aaaagaactc tctattctcg taccggttgg tgatgaactc 300
 tgtaatatte accgtgcaag tgcaacttaa aacatctgtg atacgagctc ttttttttaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc 420
 cgc 423

<210> 16507

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D5

<400> 16507

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<210> 16508

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-D6

<400> 16508

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gagacccccgt tcaccgacct caccagcgag gagttcctcg ccacacacac catgtccacg 180
cgcttgcctg cgtccgaggc cgcgcggcgc caccgggagc tcatcacgac gcacgcaggc 240
cccgtcagcg acggcggtcg ccagtggaaac cggcggaact acacgacgga cctcgacgtc 300
cccgaagcgc tggactggag gaccaagggc gcggtggcgc cgggtcaagga ccaaggagct 360
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<210> 16509

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-012-Q1-E1-D7

<400> 16509

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ggccctggac tggatgatct tatcgagcag ttgaccaga atgatcgccg aggaccacca 180
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agagagatgc catgcaagca cctgtaccac tccgactgca tagttccttg gttagagcag 360
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<210> 16510

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 16510

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 ttatttagag tgttgtaagc cttgtagctt atgtttttgt tggcatcaag gtatcattcc 360
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<210> 16511
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-D9
 <400> 16511

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 cgtcgccgtg gaggaggagg gccccgcgt cccgaccag tgggtggcgt tctccgccga 180
 ggccctgccg ctggaccggg tcagcgcgtg ggtgaacagc ctggggaact gctcgttcca 240
 cgccgtcgat gaggacgggt gcgccacggg gcacggcgcc gacggcgccct cgcgcccgcg 300
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<210> 16512
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-012-Q1-E1-E1
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 tgtcaagcat ctcttcaaag tggcttggtg aaggagaaaa atttgtagaa gctgtgtttt 180
 cactggcaag taaaattgct ccaagtgtaa tttttgtgga cgaggttgat ggcattgttg 240

gaaggcgga gaaccctgga gaacatgaag ccatgcggaa gatgaaaaat gagtttatgg 300
tgaactgga tggctgaga acaagggaga aagaacgtgt attagtactt gctgcaacta 360
acaagccatt tgatcttgat gaggctggt 389

<210> 16513

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E10

<400> 16513

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ccacggtaga ttcattgaga tgagctccac ctcattccact tctacgtcct gctcattgtt 180
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aatcagatgt atggattatt gtaacgcatt cttgaaaggg aaaaacatgt attatagcgt 300
gataactgta ccttttgtgt ttgtgtaca gaaccataga attgtacttc atttttaggtg 360
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<210> 16514

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E2

<400> 16514

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aaaccttct atcccaccgg tcgcgcgcgc cgcaggtcct agccgtggcc tctcattcc 180
accggtctc cttgtgcgt tcccatgcc gaatcactca cataatcccc cgcgctgatg 240
caagtgccga agctggagaa ccggagcctg tctactctc agctgaatcc gaagaggagg 300
tggccgaggg gtctgtcgt gtggcgagg cgagggaacc gacgccgcg agcaagccga 360
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<210> 16515
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E3

<400> 16515

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gacgaaatgt ctctcttcta cccccgcctc tcctacctac gagcaggggc aacacgagga 180
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caagaccctt gctccgcacc tcaacgtcgc ggttggtggag aaaggcaggt tcttgtccaa 300
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gggactggcg agaaattatc caagggggaa caaggagctc cgaggatcct ttctttacgc 420
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<210> 16516
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E4

<400> 16516

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cgccacgaag atccaggtct gttgacgact cgctgcccggt ggcgtggctc agggtaggcg 180
ttggagcagt acgatcgtgc aggggtttat ctacctcgc tctcggtagt ctcatgggct 240
ctgaaatcca actatgagcc ttttggcggg tgtgaatgct catggctcag ctggttttct 300
ttggctgaac cgctgaagac ggattccgtg ttaggatata gctttaggct tctcggcatt 360
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agcgtgttc 429
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<211> 160
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E5

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gagtattatc ttgaaacttt tgttcaacca accttttgag 160

<210> 16518
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E6

<400> 16518

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caggctccaa gatcccgaga ggcgttgctg tcagggcgac gtccggcggc gagggcgcca 180
cggaggaggt gccggagatt gtgaaggctg cgcaggacgc gtgggacaaa gttgaggaca 240
agtacgccgt ggccaccatc ggtgtcgtg ccatcgtcgc gctctggacg gtagtaggtg 300
ccatcaaggc catcgacaag cttcctcttc tgcctggtgt ccttgagatt gttggaattg 360
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tcggcaaaa 429

<210> 16519
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E7

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cgacgcaggc gccacacatg gcatccacgc tctccgccgc cgtgccccgg ttccacggcc 120

tccgggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg aggggtgggca 180
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 cgaaccgcaa ggcgacggcg gggctgaagc tggaggcgcg cgactccggc ctgcagacgg 360
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<210> 16520

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E8

<400> 16520

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 cgccgcccgtg ccccggttcg acggcctccg gggctactcc gcggacaggt ccccggtggg 180
 accccagcgg tacttgctgg tcggcaggat gaggtcgctg tcgcagggcg tcctctgcaa 240
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<210> 16521

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-E9

<400> 16521

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 gaggaggagg gccaacaggg ccgcccagct gctgggggct gctgcgggtg cgccgcagca 240
 gtggcgcccc tcgctcggcg acatctgcga ggagtacagc agcagcaccg acgccgtcaa 300
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<210> 16522

<211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F11

 <400> 16522

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 actgaactga aggttatgag caaggatgaa ctgtgttccg gccgtcccg tatatgaatt 180
 gtgtcaaggg taataacaat attagtttgg atggagcagg aacaagcatt gctgcattgg 240
 aaacaatctg gaatgctttg ggctttaaat cccgtaccgt ttttaggttag gattaagctc 300
 atgtaacaca gcaaaccttt cacttagatg cactatgaat caagtgaatc gt 352

<210> 16523
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F12

 <400> 16523

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 gaggcctcgt atgcctcccc gactcgccct ccgtgcccac ctcttctcct ccgcctctcc 180
 gctcccaatg cgcgcgctcc ccttactccg cagccgcttc cgctcettga ccacggccta 240
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 ggactcgtac acgaaccgg gccaatacct cctga 395

<210> 16524
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F2

 <400> 16524

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 cgctacaccc tcgacgtcga tttcaaagac gtcgcctcgg gcggggccga cgcgctctcc 360
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<210> 16525

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F5

<400> 16525

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 ggatgtggtc aaagcatagg attttttttc tccaattggt aactgtacgc gaatggaagc 240
 gacagatcat ttgtaggttg tgagggttc aaagatcatc tgctgtgtga catgttttgt 300
 tgctgtcctg tgaacataca tgttttgttg tttctcaact ggaggaatgc tgttaacctg 360
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<210> 16526

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F6

<400> 16526

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cattcaaggt ttcatgtggg atgaggagaa agttaacgat gaactagaaa agtacatgag 240
 cagtgcctttt caacacatga aagccatgtg caaatctctg gattgcgacc ttaggatggg 300
 ggccttcacc ttaggagtta acagggttgc tctgtccacc cttttgagag gctgggaggc 360
 atgagaccat tgaccgcgca ttacagattc gacaggcgca ttcaataatt cgtgtccaac 420
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<210> 16527

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F7

<400> 16527

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<210> 16528

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F8

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 ggctggggc cgtctctcgc cgtcacggcc accaccgggt cggccaaggc cagatcttc 240
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accagtggcg ccaactttgc gcgcgcctac accgtggagt tcggcagctg ccagttcccc 360
tacaacttca ctgggtgccca ggacctcgcc aagcataaga aagtcctt catcagcgac 420
gacctcgaga ttgg 434

<210> 16529

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F9

<400> 16529

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<210> 16530

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G1

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gaccaac

427

<210> 16531
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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cccgttccgc gacggcgagc agctcggcgc ctgcgcgcgc ngggagacct cgttcggcgc 360
cgggggag 367

<210> 16532
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G11

<400> 16532

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<210> 16533
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<212> DNA
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 <223> Clone ID: LIB83-012-Q1-E1-G2
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 gcgggtccaa ccccaaacat gaccacgca ggaagccagg gaccggacac cctcaatagg 300
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<210> 16534
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB83-012-Q1-E1-G3
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 aagacagctg tttaactggg ctctggaacc tgctgctgat gaaactctag acaaattata 180
 cgagcttggg tacctggacg cagctgtatg ggctgagcag aattatgctg agcttategc 240
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 tggatatcaa agctgagttc atgagaatcc atgcctgtaa tatattgtaa agatagcacc 360
 gtcattgtcg aaggtggcat tgttctgcat tggatttggg tgtttatgcc agcattttcg 420
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<210> 16535
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G4

<400> 16535

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tgctcctggc taccaagggt gacctccggg gtatcaagggt ggtaaccaag ggaaccagg 300
ccctgcctac caagggtgta aactggtta tcaagggtggc aaccaccac ctccctacca 360
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<210> 16536

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G5

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aaaaaaaaaa aaaagaaggg aaaaaaaaaa aaagaaaaaa aaaaaaaaaa ggggaaagaa 180
gaaaaaaaga agaagagaaa agaaaaaaaa gagaaaagag gaaggaaaac aaagaaaaaa 240
aagggggggg ggggacaagg gggtcgaaac ggaagtcggg gggatgggaa atctgaaacc 300
ccgagaaggg gaggcggaag aggaagtaag ggg 333

<210> 16537

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G6

<400> 16537

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tcccgttcgt ccgtcctcct cctcccctgc aagggaaggc cttaacctcc tccaatcctt 180
taggcaaatt ccaagaaccg gaaccttggc ctgcacaacc tcggaaagat caggccatgc 240
ccgtcaacca acccggggtg cgtgtccacc aaccgctgg gatcctccgg ctccctcgcc 300
tcgccactgc tcatcccga atcatccgca ggggagaagg ccgtcgcctc gctgcggcaa 360
gccatcgaga agacgcagcg taatgtggag ttcaaggctg a 401

<210> 16538
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G7

<400> 16538

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atgaatgaaa ctgacattgt cgactgggtc attccagtag taaagaggct agcagctgga 180
gagtggttta cagctcgcgt atcgtcctgt ggtcttttcc acatagccta tccaagtgcg 240
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cctatgggtca gaagagcagc agcatcaaatt cttggaaagt ttgcagctac agttgaacag 360
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tcagtgcgtc 430

<210> 16539
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G8

<400> 16539

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ctgcacgac gacgacaacc tcccggcatc tgctgcatgc gtccgcctcg tgccgccacc 180
gcgggcgtgc tgctgatcgt gtcggatgct gtgctcgagt cccgcggtt cactgtgctg 240

cgcacggcgg atggcatcga cgtgtcggcg ctgaccaagg tgttcttgct catgggcttc 300
 tcgctacgtc aggaggagca gctgcagcac gcgctggagc atatccgtct ggtgtggctg 360
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<210> 16540

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-G9

<400> 16540

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<210> 16541

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H1

<400> 16541

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<210> 16542

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H10

<400> 16542

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 ttattttt 128

<210> 16543

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H11

<400> 16543

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catttgatta tctttacaga gattctgacg tagaatcaat gagcgatggc cacaacaaca 180
tgacagctta tggattcaac gatgtgttcg atgagccttc aatgggctgg gcaagatatg 240
cacatacgat gcgcatatgg gtttataatt ctggattctt cttcataagg ccgacgattc 300
cttcgattga gcttctcgat agggttgctt accgcctttc tcatgagccc aaatcatggg 360
accaagcagt tttc 374

<210> 16544

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H2

<400> 16544

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tgtcaatggc agcataaaag ctcgaaacaa aacacccagc agtagtagcg ctacacacac 180
acacacacac acacacacac acacagagag agagagagag agagagagag agagagagag 240
aacttcaata catggcaata cgatttattc atcctgggag gcgggtgact tcttcttggc 300
aactgaagcc ctctttccct taagtgtccg gcagttgttc tttgtectct ggccacgaac 360
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<210> 16545

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H4

<400> 16545

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ctccccatcg aacctccatg gcggccgagc tcacagcctg cgcgcgctcc ggctgctttg 180
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cctgctcgcc gagctgttct ctgccctgcg cacagccact tttcatctcc ctgctcagct 360
caccgcgctg aactgcccag cgccgcgcgc gcttgccctt gatgcctctc gcgtgatatt 420
tggatctcgt 430

<210> 16546

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H5

<400> 16546

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caacgggtccc gtcgctggcg gccccggcg ccaagaagcg gtccggcggc gtcacgtacg 180
tggagggcat gaacgcctac agcggcctca aggggctcaa caaggatgaac atgctcgggg 240
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ggaagcgggc cgccggcgcg ttccggcgcc agatgaacgc cgccgcccag atcttcagga 360
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gggtg 425

<210> 16547

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H6

<400> 16547

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ctccgctccg cccacccacg gtttctggag gacaattctt cgctgtctag ctttctcaa 120
aagtaaaaag ggtaaattgg atcagaaggg ccttcagttg tcaactgtcca tggtactgga 180
tttaagaagt tccatggggt tgctgagaac ccaaccgaga aaattgtgac caatcttaaa 240
tctttcttgg aaaagcgagg gttgccaaaa aatcttgctc tcggaagctg cacagttctc 300
gaaacagcag gggaaggggc acttgccaca ttatataagg ttttagagtc tgctgttgca 360
gacagaggaa ctgggtcctc ggcacaggga caagtaattt ggattcactt tgggg 415

<210> 16548

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H7

<400> 16548

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caactggcgcc gtcaacgtcc tctccacgct cgtctccgtc tactccgctg accgcgtcgg 120
ccgccggatg ctgctgctgg aggcgcggct gcagatgttc ctgtcgcagg tggccatcgc 180
cgctcgtgctg ggcatcaagg tcaccgacca ctccgacaac ctggggccacg gctggggccat 240
catggtcgtc gtcattgtct gcaccttcgt ctctccttc gcctgggtcct gggggcccct 300
gggctggctc atccccagcg agaccttccc gctggagacc aggtcggcgg ggcagagcgt 360
caccgtctgt gtcaacctgc tcttcacctt cgtcatcgcg caggccttcc tctccatgct 420
ctg 423

<210> 16549

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-H8

<400> 16549

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caactggggcc gtcaacgtca gtcc 84

<210> 16550

<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A1

<400> 16550

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agacccccgc ggaggcaccg gcggcgccccg ccgccgaggc gaagcctacc aaggccaaga 180
aggcctctgc gcccaagaag cgtgccaacc cgaccacccc gccgtacgcc gagatgatct 240
cggaggctgt cacgtcgctc aaggagcggg cgggggtccag ccagtacgcg atcgccaagt 300
tcgtcgagga caagcacaag gacaagctcc cgcccaactt ccgcaagctc ctgctcggcc 360
agctcaagaa gctc 374

<210> 16551
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A10

<400> 16551

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agtggcggcg gcgtacgaat ctctctacgg gccggccttc agcggcgaga cattgctggg 180
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gaacgacgat ttcaccgagc gcgtcggtca ggtcaaccgc gtcaccaagg tcgtcaaggg 300
agggaggcag ctctcctacc gcgcaatcgt cgtcgttggc gacatgaagg gccacgttgg 360
tgtccgcgtg ggaaaggcca atgaggtcac ggaagccatc accaa 405

<210> 16552
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A11

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aagttctggt actaggagaa cgattttaat cacactaacc tgtacagaaa attggtgatg 120
cttatacaat aaaaaatggt aacacccata gcttgcatac agttacattg cataattaca 180
ttcggcatgc ttgcagagaa cccatgacag agtgcttgct gtcaactgtc gctacaaaag 240
gttactgccc caggattcga gatcctgagc ttttgatggt ctctagaaat tctttccttt 300
ttggcttgaa gaggagattg ttgtagatga aaagccatgc aaccaataac ccgactagtt 360
caaagagaag aggaaggacc gggagcttgt cgatgatctc aatg 404

<210> 16553

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A12

<400> 16553

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aaccagcgtg agcgcgaccg gcgacatgac tcgcggaac cagcgtgacc gcgaccgtga 120
gcgcgcggcg gcgcggaagc ccaacgcaa gaactcccat gacgggctca ccccgagca 180
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agctgccggc ggaaccggta cctccacgga caacagcaag aacacggcag gtggcaagaa 300
gtatgaggca gtggcgcgcc gccacctctg tacgattaat cgatgccttg agcttgtaac 360
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<210> 16554

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A3

<400> 16554

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ctgttcacaa ccataacccg aataccatgt cgtcacatgt tcatacagga ctttttaggtc 180
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acgttcagag tctaataatg gacgatcaat ccattctagg aggtggggccg ccacatatca 300
ctcaactgga cgtccaattg agattgcaga agaagttcac gatagttgac atgatgcac 360
agatcaacag gagaatcatg atgtta 386

<210> 16555

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A4

<400> 16555

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tcaagttcgg cgaggccgtg tggttcaagg ccggctcaca gatcttcagc gaggggtggac 360
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<210> 16556

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A5

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<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A6

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tacaagacca gttcgacgca gaatcagttg aagaggcatt ggcttctaac cctgttgagt 120

tgaaatttga gaagcctgag aaatggacag ctccgtaccc taaatatggg tttggatggg 180

gggaaccctt ctgcctcca aagttcagca atggtagcgc atagagataa gcagcaatcc 240

ctatgaggca tgtaagatta ctcccctgta agtgatgaat gtaattttaaa ttttgatgat 300

gaggatgtag tacttgaggt tgtaccagta cagttagttg aattagttgc acagtttttg 360

taatacaaaa taatcagctg ttttaattt 389

<210> 16558

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A7

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tctgaaagca cgtctgaata cattcagaga ggaattccgg gctgtctggc ggaattatag 180

tgagctttta ggtctcattt gtttctctca tgttcattgt ggtaaggaaa ggtgtctagt 240

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A8

<400> 16559

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<210> 16560

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A9

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cgtgctctgg gtgcgcgccg ggttcgacgc cgccttcgcc atggggatcg tgctcgttct 360
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<210> 16561

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B10

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<210> 16562

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B2

<400> 16562

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 ggagcttgcg gctttgaaaa agttgatgcc tgctcgacct aatccggtta agctgaagga 240
 aactttatgt gaagctaaac tgagcttatt taatagccca gactctgtgt tgaatcaatc 300
 aaacttggtta ataagcagct caagtcgga tattggcgag cccagtgaca aaatgcaggt 360
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<210> 16563

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B3

<400> 16563

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<210> 16564

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B4

<400> 16564

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<210> 16565

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B5

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 attcatttgt cactgattcg tggggttttg gttgaacttt tccataacat ctctagagac 240
 caccataaaa ataagttttg taaagttatg tggacttggg tccacatgaa ttttgggata 300
 acaatgggcc aaaaaggga ccaactttcat cacacggagt ggggctttct accgt 355

<210> 16566

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-B6

 <400> 16566

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 gattttctgcg tgtgaattga aagggagtggt gcccttgata tgttaggggtt gtttggtttc 180
 ataaacgagc ccctgagagt gtgcttgaa aggggagatg agatatcttg ggttttttcc 240
 ccgggcaagt tggatctgct cgtgcccagg agatttcctc tttgcgaac acaccaccat 300
 tagcggcccg agagaggtaa ttttggtagg ttatattatg ttttaaggat agtgcctaag 360
 tgtttgcttt gttatttgggt aatgcttgct aaagacattg tagtggacaa at 412

<210> 16567
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-B7

 <400> 16567

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 gtgaaaggga gcctcaaadc caaacggcaa ctcaatatgg gcagggatgg tttgacacac 180
 aatatgttgg agaacattca ttcacattgg aagaggaaaa gagtttgcaa gataaagtgc 240
 aaaggtgtct gtacaataga tatggataat atctgccatc agctagagga aaaagttgga 300
 ggaaaagtaa tacaccgcca agggggtgct atatttcttt ttcgtggtag aaactacaat 360
 tacaggaccc gcccatgttt 380

<210> 16568
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-B8

<400> 16568

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tcaatttggt atcttcgctt ctgacgggtc atgggagcac ctcagcaatc atgaagcact 180
tgaccttgct caaagtactc gacacaatgg aattgctccg acacgaatga aagcggccat 240
gcacgaacct gccagaaga aggagatgag atactcatac ctcataaga tcgacgctcg 300
tgtgagaagg caattcgaag acgatatgac ggtcctcatg gtactccttg agtttaatgc 360
catgac 366

<210> 16569

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B9

<400> 16569

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gtttttgttg ttttatttat cacttctcct gtattcctat attttatatg tctaagtttt 120
taagggtgatt tcatgcaacc cttgtacaag caattgatac aaataaattg caccttttat 180
gatc 184

<210> 16570

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-013-Q1-E1-C1

<400> 16570

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catggttctt tcattcctct cgaacctcat gggcgggacc acccaactac gcatcggctc 180
tgctcccgtc ttctacggcg ccgggtatgt cccattggct cagtgggtggg gctatgggtt 240
tgtcatctcc gttgtaaaca tcatcatctg gtcggggtg ggcgggttct ggtggaagat 300

aatcgggctg tggtagcag agagcagcac attaactgcg acatcccttt tggttttctg 360
 ttgttttttt gtcnagtggg gggaggaaaa ctatttcctg aaatt 405

<210> 16571

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C10

<400> 16571

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 ctcggaacc cgagcctggt ccacgcgcag agcatcctgg ccatctgggc gtgccagggtg 120
 gtgctcatgg gcgccgtcga ggggtaccgc gtcgccggcg gcccgctcgg agagggtggc 180
 gacccgctgt accctggcgg cagcttcgac ccgctcgggc tcgccgacga cccggaggcg 240
 ttcgccgagc tcaagggtgaa ggagattaag aacggccgcc tcgctatggt ctccatgttc 300
 ggcttcttcg tgcaggctat cgtcaccggc aaggggcccc tcgagaacct cgccgaccac 360
 atcgccgacc ccgtcaacaa caacgcctgg gcttacgcca ccaac 405

<210> 16572

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C11

<400> 16572

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 tggtagccga tttctccacc ttttctcga tgcatactct gagagtttac gttcctagct 180
 acgagagcta cggacgaatg tggccacaca tgcacacgag gatcatcgcg gctctgatgg 240
 tttaccagac caccatgatt ggcttcctct ccctgaagaa gttcgcctaa gcctccgttc 300
 tcgtgcccc gcttccatcc agcataatct tcgcctacgt ctgccacatg cgcctctacc 360
 cggcggttcg caagactccc ct 382

<210> 16573
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C12

<400> 16573

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tcagcagccg caagctcgag cttcattctt cctctgtgcg ctgatcgatc cttatcccgc 120
cgcccttccc tgagattttt caggcgccac cgcccttggg ctccataaaa tctcctctgc 180
cgggtgctcca attcacgaaa tcgcgttcct gtgcttccca gctgagttct agccatgggtg 240
ccggctcgagt tcctccccag cttcttcttc tagctcgccc agccgaagtt ccatggcgct 300
cctctctgcc ggcgttctcc ccagccgcgc tctggcgctg acctccgctc ggccgcgcgc 360
tcctccctg cccag 375
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<210> 16574
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C4

<400> 16574

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aacaataaaa aagaatcaaa aaaaaaaaaa caaaaaaaaa aaacaaaagg gcagaccgca 120
aaaaggaagc aaacaattga atttcgcagg caagcaacct tggcggtctc tcgcggcggc 180
taacttgatc tcctcctcgg cccgtcgcat tc 212
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<210> 16575
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C5

<400> 16575

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ccagcactgg aggtctccga gtattcatgg cgccttgacc atcggccgca tcatcagcag 120
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ccatcacaat cgccagccag atagtcgcac aacagcattc acaaagaccc ttgatgcct 180
aacaccatac agtcgagtct ttccgcccttg tcaactccacg actagcatac tccctactga 240
gaagattaag cctcagaccc cagactactg cattcatcca ggaggat 287

<210> 16576

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C6

<400> 16576

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tggtgtgagc tattccctgc tcatcaaagc ttatgggaaa gccagaaggg aagaagaggc 120
attggcggtt tttgaagaga tgcttgatgc tggagtcagg ccgacacgca aatcatataa 180
cattttgctt gatgcatttg caatatctgg attagtagag gaggctaata cagttttcaa 240
ggcaatgaga agacacaggg ttgagcctga cctttgctct tatacaacta tgggtcttagc 300
ttatgtaaat gcatctgaaa tgaatggagc tgagaaattc tttcgtagga ttaaagagga 360
tggtctgaag cccaacg 377

<210> 16577

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-C7

<400> 16577

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atactagttt gttgttacag gcagcaggct ggccatgcgt gaatcatgac cgatgcagcg 120
cttcagggtc ctttacaaca cgcatgcac tagctttcca cagcaaaca ctggcgggcg 180
cggcggcagc agcagggtatg ctgatgcacc acgtgctagt ggaacttgag gctggtgagc 240
acgttggttg tgacgggggtc agcgaggtg tcgagcaggt tctggaacgg gccgacgccg 300
gtgacgagcc cctggatgaa gtaaccgatg atggcgagca tggcgagcct gccgttcttg 360
atctc 365

<210> 16578
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C8

 <400> 16578

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 ttcctctgca gggctaccct gcgtatgcac taacagtact tttccacca atggcttata 120
 ctcatcctcg atcggcatat catcgtccat ctgagggata accaccataa tgtgggtacc 180
 gtcatccagt ttgctacaca cctcaagggtg gatatcatca tgcacgtac tctggcacat 240
 cacaacaccg ttatggtaac aaccgccacg gacgccacgt aggcaacatt cag 293

<210> 16579
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-C9

 <400> 16579

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 aggtcgtcga cccgctctat cccggcggca gcttcgaccc gctcggcctc gccgacgacc 120
 ccgaggcctt cgctgagctc aagggtgaagg agctcaagaa cggcgcgctc gccatgttct 180
 ccattgttcg attcttcgtc caggccatcg tcaccgggaa gggcccgtc gagaacctcg 240
 ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc aacttcgtcc 300
 ccggcaagtg agggaggcgc cgcgggtgac ctttaggtgt ccggatgcat gtgagcgcac 360
 gctgggttttc ggtttgttcc atgaggttaa ctattgttc 399

<210> 16580
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-D10

 <400> 16580

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 aagatgaatt caaggaattc ttttccaagt ttgggaaggt tgtggagcat gaaatcatcc 180
 gtgaccatgc aaccaaacgg tcacgtggat ttggttttat agtctttgat gcagaaaaag 240
 cagtacatga tttattacat acaaagggca atatgattga tctaaatggg tctcaggtgg 300
 agatcaagaa ggcagaacca aagaaacct ctaatcaacc acctcggtca cttgatagtg 360
 agcctagggg ccgtccatat gcagacagtt atgatggatt tg 402

<210> 16581
 <211> 160
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-D12
 <400> 16581

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 gctgggtcatc tgaaggagtg ctcaagaacc agcaattttc gtgggtgcac gacactctgg 120
 gagataagct tctgcattta catgatgcat tttgcatggt 160

<210> 16582
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-D2
 <400> 16582

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 gcgctatgat ctgctctgaa ggagttttga gaagcataca tggatccgaa agttgctcct 120
 gtcaagaatg ttgatgccaa ggtcaaagtc ttggatgtgg ccaaggctgt catgtttgag 180
 gcaggcaagg agaagagcaa ggtcattcgt acatctgtcg cagttcacca gatcacaata 240
 ctaaatatcg ccaaggatac gaagttatca cgcttcaata ctactgtcat caacatactc 300
 gatcagtatc atatcctcaa atatcctctc aacacataat ct 342

<210> 16583
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D3

<400> 16583

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 gtacaaggac cagatcaaca ctttcctcac gcagttctca gggttcattg acggctatgg 120
 tccagccgga tatgctctgt tcgtacttgt atatgcagga ttggaggttc tcgctattcc 180
 cgcaatacct ttaaccatgt cagctgggtct attatgttgt agtgtgaccg gtacaattat 240
 tgtttcaatc agtggaaacac tagctgcagc ggtggccttc cttattgcta gatacttcgc 300
 cagagagaga attcttaaat tggttgaagg aaataagaag tttctggcaa ttgataaagc 360
 aataggtgaa aatggattca aggttgtcac 390

<210> 16584
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D4

<400> 16584

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 ccctgaagct gatgatggcc gcaaactacc tggacacttg atgaggagcc tgagggatct 120
 aaccctagga accgttttgt tgtgaaattt gaaaaggtaa tgtaaacgtt atccgataac 180
 actgtaaatt ttaaaaagta agctattact tggattgttt gggttcagcgt aagagattat 240
 gttgtggctt aaacaaacac gctccaacgt aatcagttac tgttgtaatc aaaaacaaaa 300
 aaaacaacaa aaaactaaaa acaaatcgaa caaagaaaaa aggataaaag aaaacatttt 360
 cgaaaaaaaa aaaggggggc 380

<210> 16585
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D5

<400> 16585

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aaagctgtac atgatgctta ccatacagaa tcaactccgcc ctaatgctga gccaagattg 120
gaactgaacc tgtgggatct cagcacagaa cctgatgatt gtgtccctga tttatctctc 180
agtctcaatc cacgtttttc tggaacagac attggtaagc atgttccacg acatacataa 240
gatgaattac tcctgtaccc gggatatgag aatacccccg taaagtccgg tttttggcct 300
ctggtgccat ccgatcatcc cgttggatgat attccggcca taccatcctt gcaacaggcc 360
tacatggctg acagcccaag ggcatattct g 391

<210> 16586

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D6

<400> 16586

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aagatgtcgt agagaagttc agagtgaagg ctctgccgac gttcctcctg atcaaggagg 180
gcgaggagca gcgcagggtc gtcggtgcc a agtgcgagga gctcaacatg gcattatcag 240
atatcggata atctaggcag ctatagcgt cacattcgaa cttcatcaaa ttattctaata 300
aaattaataa gctggaaata agtcttaaaa atacaaatgg ctaattaatg cattttcgat 360
ttacaaagat tgaaattcaa gaaaatgtgt attaattata tcatatacaa ctactacaca 420
t 421

<210> 16587

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D7

<400> 16587

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atatatatct agacattttc gcaaaacaaa tcacaaggaa aaaaaaaga aaaaagacaa 120
 aaaaaaaaaa aacagatggt ga 142

<210> 16588

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D8

<400> 16588

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 ggagattgcc agagtggaga attctcgcct taacgaagag atgtttaaga aagagagtac 180
 cttgcagagt atcaaccaag aatatgaatc cctcaagatc agcgaggcag ccgcacagag 240
 tagcattaaa gaattgaagg atatgattga tgctatgttc agttctgagt cgacaaaaac 300
 gtcagcagaa gcatcacctc gtgaggccaa gggaagcaag atgaaggaaa cttctgtggc 360
 agcaga 366

<210> 16589

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D9

<400> 16589

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 gtgacaccat cggactctgt tgccattata gcgccaatg ctgttcaatc aattccttac 180
 tttgcttctg gcctgaaggg agttgccagg agcatgccaa catcagctgc cttgatgtt 240
 gttgcaaaga atttgaatct caagttcttt gaggtgccta ctgggtggaa attttttggg 300
 aatttgatgg atgctggaat gtgctcaatc tgtggtgaag aaagctttgg cactgggtct 360
 gaccacattc gtgagaaaga tggcatctgg gctg 394

<210> 16590
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-E10

 <400> 16590

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 tatactgttt gctgagggga ttacatcctc agatggggta gcatcaactg acttctcttt 120
 ccctcagctg tcgttgggtg gactgggtgt tgatgacctc gatgcacaag acactttgct 180
 aaggtagcag ttgatcagga tatacagtag aggtttgcat gggaactgca aatgggtgca 240
 catgttcgat gacgttaggc ttgttagctt ctgtgttget gctagcgact acgatgagta 300
 ctccgaagat gcaaacggta tcattgt 327

<210> 16591
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-E11

 <400> 16591

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 ctgcgccgatg agcccggggt gcaccgcgtg tggcagccca gccgggagtc gccggggctc 300
 gccatgtcac gcgcgttcgg cgactactgc gtcaaggact gcggcgctcat ctcgacgccg 360
 gaagtgacgc 370

<210> 16592
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-E2

 <400> 16592

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 cgatcagttt gttcaagcgg tacaagaatg tcattgaccg aggaggtgga gaaaacctaa 180
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 gaaaggaact tatggatatt gaagattctg gtctggagat tgaaggctta cggtccttgg 300
 ggggcaccag cctgaagttc aaagtccact cctttgagat tcgtgagtgc attctgtggc 360
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<210> 16593

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E4

<400> 16593

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 gggaggtcaa gggaaagtgg gtcacccaag gtccgttga tgtggacatt ggtgccaatc 120
 catccgccga ggggtggtgag gacgaaagcg ttgatgacac agctgtgaag gtgggtgata 180
 ttgttgacac attccgtcta caggagcaac ctccctttga caagaaatca tttgtgtcat 240
 acatcaagag atacatcaag aatctcactg ctgtgttga gccagataaa ggggctgagt 300
 tcacaaatgg tgctgagga gcaaccaagt ttctccttac caagctgaag gacctcaat 360
 ttggtgttg 369

<210> 16594

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E5

<400> 16594

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 cacatggcgt tcccactagc cggtaaaggc aaggcgggcg agctcgtcgt caagctggcg 180

ttccagatca tggatgacgg aggcgctcggg ctgtacagcc aaccgcccgt tgcagcttca 240
ggcaaaacta gtcctctctc gtcctcctcc ttgtttgcac ggaaacatag caagtcgctc 300
ttcagcatcc cgagcccca ggtgatgcgc tcggagccgg cgctgatacc atccatggga 360
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<210> 16595

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E6

<400> 16595

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gtaagtgtg gttccaggtc tcatcaactg cacaatgaaa taggcacagg atactttatg 120
tgtcagctac gtgcaatttg gtgcaagact agcacaggaa catggagttt cttcagtgtt 180
gtccgtatac ctcttccatc tggtccttga catcacagca gaggaccatc cattggactg 240
tcatgttttt gcgacttcgt tgagcagctg tctgttgatg tttcactgac agtctcaggc 300
tgggtgcagag ccaagtgctt aacatccata ttgtcctgt gatgagttat gaccatgggt 360
ccaagaacca tctcagcaat attgccatag ttctgacaca agtgtggggg gaggcct 416

<210> 16596

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E8

<400> 16596

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catgttcgaa tgcataacg gtatggctc caacgatgtc tcatcgacca cagtaccgga 180
gggtgtttgcc tggtcggctc gccagaagcc cagcaaagca aaatactatg tggacgacac 240
cagcgaagtg atcagattgc tcagggatgc aaccgccttc tcatcgtcgc agcggaggga 300
ggacgtcaac gccagccgcg ggcgtgtgac cttcagagac gcactcgatt acgtggacta 360

ggcaccagca gcaattctta gttactcgaa atgattagct gcggagcttg taaattccgc 420
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<210> 16597

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E9

<400> 16597

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cacactgggg ctaacattac agaagaaagc aattacacca ccagggcggc gagtagtcac 180
atgcctccat ccaccgaagg gaaagcttca gaagatatgg acgttgatgg ggataccgag 240
gctagcttag atgaaacca agataatgaa tatgctgatg atacaagatc aagcggagct 300
taaaatcaga gttttttttg tttagagcaat ctttggtggt gtgaatctgc agaattatat 360
agatagctta ctgctgg 377

<210> 16598

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F1

<400> 16598

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atactccatc agatgcgtgc tgtgagctca agacgtataa gttgtgctgc cactaaacct 180
gcaaagactc ctgctgaaga acaatggaca gttatgcggt aactgctatc ataaacgcgg 240
gtacgaagtg tcgatgtgaa cgaagcactg cgccttcata aggaatacaa gtttgtcatt 300
cgtggtgtca ggccataagc acagtttaaa gacgctcatc cacctggcgc ca 352

<210> 16599

<211> 397

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F10

<400> 16599

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 gccgcaccac gcaccagcg caaagcgatg gcgtcgctca ccatgatggc gtccttcgcc 120
 gccgtggcgg tggccgcgcc ctgcgcgccg ggcaccttcg ccgtgggtcag gtccgccaag 180
 gtgcaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgccgac 240
 ggacgccgcg ccgtcatgct cgcggctgct gcggcgcccg tggcagccat cggcgggcgc 300
 ggcgccgcca tggcgggccc caagaacggg acccccgagg cgaagaagaa gtacgcggcc 360
 atctgcgtca ccatgccac cgccaaggtc tgccaca 397

<210> 16600
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F12

<400> 16600

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 aaagtgattg ataaggagaa gggtatgaag gttggtctca ttgatcaaat ccagcgagaa 120
 atttctgtga tgaagcttgt taggcatcca aacatcgta agctctatga ggtcatggcc 180
 accaaaacca aaatatactt tgtgctggaa catgttaaag gtggagagct gttcaacaag 240
 attcagcgag gaaggctcaa ggaagacgca gcgaggaagt acttcagca gttgatctgt 300
 gcggtggact tctgccacag caggggtgtc tatcatcgag atttgaagcc agaaaatctt 360
 ttgctcgatg agaatagcaa cctgaacgta tc 392

<210> 16601
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F2

<400> 16601

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gccatgaagc tgaagctcct ctctccctgc cttctcgtec tcgccttctt tgccaccgcg 120
gcgtacgcgg cgteggcgtc ggcgtcgcgc gcggcgggcg tcgtcagggg cgcgggcgcc 180
ccgtcgcagt cggagttgga gtcggacccg gagaaccagt gcgtgtacac ggtgtacgtg 240
cggacggggg ccatctggaa gggcggcacg gactcgacca tcggcggtgac gctgctgggc 300
cccgcggca cgggcatccg gatccgggac ctggcggggt gggcgggcct catgggcgcc 360
ggccacgact actacgagcg cgggaacctg gacatcctca accggcgggg ggcct 415

<210> 16602

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F4

<400> 16602

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cgtggcgctca gcacgccccg cgggcaggag ggtgaggctg ctgagcggtga ggtgcgagca 120
gggagccaag ggcggtgggc ggctggacgt gtggctgagc cgcggggcga tgctgggctt 180
cgtcggagcg gtggccgtgg agctgaccac cgggaaaggc gtgcttcaga atgtgggatt 240
gaccgcgcgc gtgccgacgc tggcgctggc gtcaccggc gcggtcggcg tcctcacggc 300
cttcctcadc ttccagtccg ggacgcggga ctgatgggtg aattgtcaaa gctcccaaaa 360
ggacatgcat aaagtctgtc agagtctgt gccgtgta 398

<210> 16603

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F5

<400> 16603

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cgccgccgcc gtgtgtgccc cgcgctccgt ggccgggctc cgcttgggcg cgtctcccgg 120
ccgggcgcgc gtgtcgttcc gcgcggcgcc ggccggcgcg cggcggtccg tggcgggcgc 180

cgcgagctg agctcggcgc tggatgacg cctgagcacg ggctgtgc tcttcctggg 240
 ccgttcgtc tcttcaact tccagcgga gaacgtggcg aagcatgtgc ccgcgcagaa 300
 cggcaagacg cacttcgacg ccggcgacga gcgcgccaag gagttcgcg cctgtctcaa 360
 gtccaacgac ccgtgggct tcaaactcgt cgaagtcctc ccccgggggg 410

<210> 16604

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F6

<400> 16604

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 gacggggaag cgcctctccg acttcgccga cacgctcggc ctgcccttcg agttctgcgc 120
 cgtcgacgag aaggtcggca acgttgaccc gcagaagctg ggctcacgc ggcgggaggc 180
 cgtcgccgtc cactggctgc accactcgtt ttacgacgtg accggctccg actccaacac 240
 gctccggctc atccaaaggc tggcccccac ggtggtgacg atggtggagc aggacctgag 300
 ccagtcgggg tcgttcctgg cgcgttcgt ggacgccatc cactactact cggcgctgtt 360
 cgactcgtg gacgcgagct acggcgagga cagccccgag 400

<210> 16605

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F7

<400> 16605

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 ccttacctga tttgaatttc atcctccttt aaataggata tgctetaagt ctcccatcac 120
 tttcctataa tgactgcaac gattttctcc attttgcgaa ttctatattt atttgaagta 180
 tattactatc atatacatc ttttaaatcga tccactttaa ataaaataga aaaaatcgaa 240
 agaaaaaaaa aaagaaagag taaataataa aacaggatat tctgtttcat aattctgaaa 300
 tagagttctt ttttttagta ttactcctca ttaggatgta tatattaatc atcctatttt 360

aatatatatt aatcatccta ttttaattag gttctaattcc aa

402

<210> 16606

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F9

<400> 16606

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gaccaacggt gacacttctt ccaatggagc tgacaattca ggtcccacca aggatactga 120
gtagctgaac tgcagcttgc tgcacgcta accacaaagg cccaagttat tactttttgc 180
agacctatctt tcagttctag cccctccctt cccatttcga ttttgtttgt taagtcctcc 240
cgatctgtat ttattaactt gcatgatgag ggtcaccgaa gacttaggct gctgcagaag 300
ttttgtctct ggccgggaagc tatatgcaag aggggtggtac cgggttcgttc ccagaaatct 360
atgtgcttgt taacctgaag gccgagaaag gcgaaa 396

<210> 16607

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G2

<400> 16607

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tataaaatctt ctactctact cccaccattc caaattgcaa gatgttttag cttttctaga 120
catcttttgc tatgtactta gatatacact atatttaaatt acatagtaaa agcaacgtag 180
caggaaaaac caacaatttg gaacggaggg agtatatggt tttcatgtcc agctgtttat 240
cttctattaa gctcagtcac aacactgttt gtacgagctc ccaatcactc cacaaatctg 300
taaagtagcc tgggctagtt ttccttctga ctgacctga tttctcctta gacatgcaga 360
tgtgactggt tgcgttttt 379

<210> 16608

<211> 388

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-G4
 <400> 16608
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 caccatggct ctcacctccc gcgcgctcgt cggcaagccg gcgaccagca ccagggacgt 120
 cttcggcgag gggcgcatca ccatgcgcaa gactgctggc aagcccaagc cagcggcgctc 180
 cggcagcccc tggtagggg cgcaccgcgt cctgtacctg ggcccgtgt cgggccagcc 240
 cccaagctac ctgaccggcg agttccccgg cgactacggc tgggacaccg cggggctgtc 300
 cgccgaccgc gagactttcg ccaagaaccg cgagctggag gtgatccact gccgctgggc 360
 catgctgggc gcgctcgggt gcgtgttc 388

<210> 16609
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-G5
 <400> 16609
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 ccgctcgagg ctgacgataa acccttcaag ccctacgagc ccgtcttcgc cgtcgtacag 180
 atcggtcgc accaattcaa ggtgagcaat ggcgactcca tcttcacgga gaggttgaag 240
 ttctgtgatg tgaatgacaa gttggtctta aaccgagttc tcatgcttgg ttcacaagct 300
 caaacagtta ttgggaggcc aatactacct gatgctgctg ttcattgctgt tgtagaagaa 360
 catgccttaa attccaa 377

<210> 16610
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-G6
 <400> 16610

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 tgatcacagc tcacgacctc tccctcctca ggctacgtga caatgc 106

<210> 16611
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G7

<400> 16611

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 attcaaacaa taggggtctt catggtgaac ccttggcaac ttcctaccac aagaagtctc 180
 ttggaactgt tgattacctg tggcacactc atggaattga atgtccaga gttttggaca 240
 cgttacctat tagtgttttg aagagaacga ggggtcttcc aaccagggaa attggcagtg 300
 atcatttgcc cattgttgct gaatttgctt tcacggaatc agttgaagat gattccgatg 360
 aagatgatga atctgagcaa gatgacgaat ctaagaaatg agcgaaac 408

<210> 16612
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G8

<400> 16612

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 agtatattgca ctggactacc ctggctttgg tctttcagaa ggacttcacg gatatttcc 180
 aagttttgat acacttggtg atgatgtagc tgaacacttc tctaagggtca aaggaaatcc 240
 tgaatataga ggcctaccga gctttctgtt tggccaatct atgggtggag cagttgcatt 300
 gaaggttcac ttcaagcaac caaatgaatg gaatggtgca atactggtgg caccgatgtg 360
 caagatagca gacgatgtg 379

<210> 16613
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-G9

 <400> 16613

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 gctggaggtg cgcgtggtga ggggagtga cctcgccatc cgcgacctcc gatccagcga 180
 cccctacgtc gtccttcgca tcggcaaggc gcagaaagtg aagacgcgag tggtaagaa 240
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 tattagactg gaagtatttg acaaggacac ttctgttgat gatgcaatgg gtaacgcgga 360
 gctggacatc cgcccgttag tcgagattgt gaaga 395

<210> 16614
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-013-Q1-E1-H1

 <400> 16614

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 cgggtacggg tacgacgagc gccaggagcc ggcggagtcc gcggacggcg gcggcgggcg 180
 cgacgacgag tacgcgacgg tgctgtcggc gccaccaag cggccggcg ggccggacca 240
 gttccgggag acgcggcacc ccgtgtaccg cggcgtgcgg cggcgcgggc ccgcggggcg 300
 ctgggtgtgc gaggtccgag agcccaacaa gaagtcgcgc atctggctcg gcaccttcgc 360
 ccccccgat gccgccgcgc gcgcgcacga cgtggccgag ctggccctgc ggggccgcgc 420
 cccgtgcctc a 431

<210> 16615
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H10

<400> 16615

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taccaaaaaa gtgtcgcaag cacagtctgc acacatcata caacacagat caaactcaaa 120
cagcactaca gaaattcgta tgctgcgtct gcatcactgg atgaagcgca aagctagcaa 180
ttcggcttac tcccatcaag accaaacaac taagcagcca tacgcaacgt aatgcacagg 240
tggcaaactg gtgctcacac ccacaagcgc tgccccctc cggagaaact cgaaccgggt 300
ttgctaccat tccctactaa catggacctc gaatcacttg catctagtgc ttcattgtctt 360
tcccaagacc cctgggtact ttgctcaga 389

<210> 16616

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H11

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ggctggcacg agggacgtct tcggcgaggg ccgcatacc atgcgcaaga ccgccgcca 180
gcccagccg gcggcgctcg gcagcccctg gtacgggtgc gaccgcgtcc tgtacctggg 240
cccgtgtcc ggctcgcccc cgagctacct gaccggcgag tccccggcg actacgggtg 300
ggacaccgcg gggctgtcgg cggacccgga gaccttcgcc aagaaccgcg agctggaggt 360
gatccactgc cgctgggcca tgctcggcgc gct 393

<210> 16617

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H2

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ctcgctcgtc gagcatatag ccatgccatg gtacgcacat gctcaaaggg atagataggt 120
ccagtgaag cgcgaggga tgcgcatcca cggaggggtgg tggcgcggtg gccacatcca 180
tgcgatgccg gttcacgttg tgcgctcctcg ccgtgccggc ggtggccgct gggttcctgc 240
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acctgccgga cgcgtgcacg gcgttccgct gggcgcgctc cttgtacgga gccgaactgc 360
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<210> 16618

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H4

<400> 16618

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ccggcggtgca gccccacctt cgtgagcagc atccactcca actcccatcg caaggctctc 120
gagatgcgcc gcaagaaggc gggcgacatg gtcgccaccg ccgcgcccgc cgtggcgctc 180
ttctgagctg cactcgctgt cagcaaggac gctggccacc cagcggtggc tgtacatttt 240
ttttttcttg ccataatggc cctgtaccgt acctgaactc tctccctc actcactc 300
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<210> 16619

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-013-Q1-E1-H5

<400> 16619

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agtccccca ccccccggc cgcttacttc atgcctccat ggatccggtc ggggaccgct 180
cgccgtcgcg gcgggtccctg aagcggaggc cgccggcgcg gtcgccggag ctgtcgccca 240

agtcgggtcc gggggcagga gaggcggcgg cggaggggct gatccggcgg gtagaggagc 300
 tggaggcggc ggcggcggc ctgcgcgggg agaaggangc ggcggaggac ggcggcggg 360
 gcctg 365

<210> 16620
 <211> 371
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-013-Q1-E1-H6
 <400> 16620

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 catcatcacc gttattcttg tgggtgtctct actgttcagt ggtgtgtctt caggacaaac 120
 tgcagctaca caagccagcg atgcagatct ttctgaagcg gttgaggttg agagacgcag 180
 tgggaaggtt ctgacgtacg ttcaggacta cgactacggc gggccaacc ccaaactga 240
 cccacgcacg aagccaggga gcggacacc tccataggta gcccaaggata aacgtccggt 300
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 tgagtagaaa g 371

<210> 16621
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-014-Q1-E1-A10
 <400> 16621

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 tgtagattca agtttccctg aaactttgag gtataaccaa ggacatgtaa ttggtaaatt 180
 gtttgtattc ttcgttgaca tgcacaagca gtttgtggc aaa 223

<210> 16622
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A11

<400> 16622

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gcttccacaa atctattttg ttactgatgg gtcagttgat gatgaacgga atatctgcc 120
ttcattgaaa actcaactta ttaaaagtgg atctaagtct cctcggattt ctacttttgg 180
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ctatgctgct gcatttgata caggatcaat tgaggggtcga atgcttcaat ggttccagaa 300
agcttcaagc actatagtgt caaatgtttc cattgatgcc ataaagcata ttcaagattt 360
tgaagtggat tctgtatata ttccagacat ttcagcaaaa tatccattgt gtgtt 415

<210> 16623

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A4

<400> 16623

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atcatatata cactgttaac tatcatggag aggttccagc tgaagagaga gttgagaacc 180
tgaacaagtt ccgcaatgaa gaggggggatt gtccaacatt agtatgcaat gatctggcag 240
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ttgattacct tcacagaacc gggagaactg cacgcatggg agccaaaggg aaagttacaa 360
gcattgtggc taagaaagac g 381

<210> 16624

<211> 143

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A5

<400> 16624

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ggatacatat acactgtctt gtggaggggg aaaggggaatg cataatggga attatcaata 120
taattcttct cgttcctttc atc 143

<210> 16625

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A6

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gctggggcctc tcggacccgg agggcaccgg gggcttcacg gagcccaagt ggctggccta 120
cggcgaggtg atcaacggcc gctacgccat gctggggcgg gtggggcgca tcgccccgga 180
gatcttcggc acgatgggca tcatcccgcc ggagaccggc ctgccgtggg tcaagacggg 240
cgatcatccg cccgcgggca cctacaacta ctggaccgac tcctacaagc tcttcgtctt 300
caacatggcg ctcatgggct tcgccgagca gcgccgcctc caggactggg taaagccggg 360
gtccatgggg aagca 375

<210> 16626

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A7

<400> 16626

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aaagcggacg ccttctgggt tctgcatgga cctgtggcat tgaagcacca caagcaccta 120
ccgtttgctt tgtagggagc acacattcgg gccattctt ttgttgaga tcgttgatt 180
gattcttcat tggcaatttc gctgaagtat ttgacttgca catcttcatt gaaacttaac 240
ttttcaatga cagtagttta agttaatggg caatcacttt tttctttttt ccgttcttta 300
catttgctcc atagtaggtt accgtgctat catctgtacc gtccatgtta accttagagc 360
atcaatgagc cgcacgttc ggtcagcctg aggcacgtg ggttttgtg 409

<210> 16627

<211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-A8

 <400> 16627

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 ggcgatggag gaggagatgg agaagctgag gcggcagcaa gcagaggccg cgcgcatgga 120
 gaaggagaag gaacgggaga agagagctaa gcagcagcaa caggttgcta tgcccggcct 180
 gaagaagggt gcgacttatt tgaggcccaa gagaatgggt ctgtacataa gacctgatat 240
 aacttaactg tctccggtga ttttgttact acgctgaggg aacttgtaat gtgtagcctg 300
 ctcaagcagc atgtaaaaca acacgtcaat gtgaatgtat acaacatcga catgtgaaaa 360
 aatgaaaaga aaaatagagt gttgtcgc 387

<210> 16628
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-A9

 <400> 16628

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 gcggcgccgt ccgggagccc gtggtacggc cccgaccgcg tgctgtacct gggcccactg 120
 tccggcgagc cgccgagcta cctgacgggc gagttcccgg gcgactacgg ctgggacacc 180
 gcggggctgt cggcggaccc ggagacgttc gccagaacc gggagctgga ggtgatccac 240
 tcccgtggg ccattgctggg cgcgctcggc tgcgtcttcc cggagctgct cggccgcaac 300
 ggcgtaagt tcggcgaagc cgtgtggttc aaggccggct cccagatcgt cagcgatggc 360
 ggactggact acctcgggaa tccgagcctc agccacgcgc agagcatcct cggcatct 418

<210> 16629
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B1

<400> 16629

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cagcgttgcc tgggtactgt cggaggagct gcaatgtgtg ctagggtcag gacgtgagag 120
tagtagtatt tgtagtgca tacgacttgt ctccatagtc tgtagttggt ctctacatc 180
tcgcagtaca gaaatactcc catgctatag gttatgccga tggagggtgca cttagaatca 240
gccgactact tggtcgattg atttactaca ttgcctggct ctgccatctc ataagttgta 300
ccgggagctt acaacatctc tgatccgttg tcactgtgaa gattttc 347

<210> 16630

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B10

<400> 16630

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catatcttct ggtctaactg gcgaggagat gatgatgttc atcaacgcct tcccagaaac 120
cgggctggaa gcatctgcct ttgctgcgct tgtccctaac agtgcagata atgttctcgg 180
cgaagtgatc gaggaaataa tgggagacca tgagatgctg acaggaaaag actccagatg 240
agaagaattt gaagcacgga catgcctatc atgaaaattg tcactttgca ttctgatata 300
tggcatctaa atctgattca aattgctgca acaggaagct gggatatggaa aagactggtt 360
aagatagtgt tgcacaagaa acatcagttt aatttttcct ctgataa 407

<210> 16631

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B11

<400> 16631

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ctcattcttg tggagagcag gatccaccgc cttgcccgct actacaagcg cacaagaag 120
ctccacca cctggaagta tgagtcaacc acagcgagca ctctggtggc ctaagtgtgg 180

tatcctccga cagcttggtc tagatatgaa tttgtgtaat gcttattatg gctcgagccg 240
gttaaagtga caacggacct catctttttt tatgtttacc ttgagaatcc cgtaaaccat 300
tttgggtttc tgaattgtct gttaaactga acatgcatat gttttgaagc ctaggggtgag 360
cttttacttc accatcacta aggaa 385

<210> 16632

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B12

<400> 16632

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caccgagaac aagatcgcca tgcacttcga caggggtcttt tggcccaacg tcgaggtgct 120
gggaatggtc gggccgacgc ccaaagcctg tgggtacttc ctgaacctgc acaaagccac 180
cggcaatccg gtcctcgtgt acatggccgc cggaagggtc gccaggagg tggagaagct 240
gtcggacaag gaagccgtcg gcctggctgt ttctcacctg aagaagatgc tcccggatgc 300
cactgaaccg acgcagtacc tgggtgctcg atggggctcc gaccccaact ccctggggtc 360
ctactcgtgc gacctggctg cgaagccggc cga 393

<210> 16633

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B2

<400> 16633

catgttttca ctataaagga acccctggag gggggagtaa cgggtgtagaa ggtttatgtt 60
gtcacagttg gcatgcattc atataggaat agctagctga tggcacggtt atgccaacac 120
agttataaca aatatcaatt gttaaattta tgattgggta tcgactaagc aaaacaattt 180
tataagaaat tgttgtgctg caatatcctt tgactaaacc ttagtcagat gctcgaatat 240
tgctatgggt tgtaaatata atatatcata tttatagatt ttgttgtaat 290

<210> 16634

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B3

 <400> 16634

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 ctctgtcttcg atcaattccc aagtcaaata atataacagc aatgggtggtt cccgtgatcg 120
 acttctccaa gctggacggc gctgagaggg ccgaaaccct ggcgagatc gccaatggct 180
 gcgacgagtg gggattcttc cagctcgtga accacggcat cccgctggag ctgctcgagc 240
 gcgtcaagaa ggtgtgctcc gacagctacc gcctccggga ggccgggttc aaggcgtcgg 300
 agccgggtgcg cacactggag gcgctcgtcg acgcgagcg gcgcggtgag gtggtggcgc 360
 cggtggacga cctggactgg gaggacat 388

<210> 16635
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B4

 <400> 16635

 cacagcccca cagtcgcccc ttcggacttc cctttattcc ccttcctata taatcccatc 60
 gccactgcct tcttcttcgc cttccaactt ccgttccgca aatcgaaagc tcggcggttc 120
 cctgcctcga gtcgaagga ctttgtccct ttacgtcgtt gtccagctcc tcgcatattg 180
 tggcctggtg cagattggag atccgcccgc attggatcg agtcctctg tctttggaca 240
 ttcattggag tgctccattc attgaggcag catgcctaag ataaagacaa gccgtgtcaa 300
 gtatcctgaa ggatgggagc ttattgaacc aacaatccgt gagttggatg ccaaaatgag 360
 agaagctgaa aatgatccac atgatgggaa gagaaagtgt gaagctctct ggccatttt 419

<210> 16636
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-014-Q1-E1-B5

<400> 16636

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atggggcgga aggacctgac ggaggaccag atcgctcga tgcgggaggc cttctcgctg 120
ttcgacacgg acggggacgg ccgcacgcgc ccctcggagc tgggcgtcct catgcgctcc 180
cttggcgga accccacgca ggcgcagctc cgggacatcg cggcgcagga gaagctcacc 240
gcacccttcg acttcccgcg cttcctcgac ctcatgcgcg cccatctcaa gcccgagccc 300
ttcgaccgcc cgctccgcga cgccttcgt gtctcgcaca aggacgggtc cggcaccgtc 360
gccgtcgccg acctccgcca cgtcctcacc tccatcggcg agaagctcga gg 412

<210> 16637

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B6

<400> 16637

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ctttcatgtc taaaccagtc taccacttg tcttcggaa tctgtctca gaatcagaag 120
cgtgcacgat gcttgagggt ggtaatgccg ggcgagcgac accaagtgat gacagccaag 180
cttctcctct gtggcgctgc agcttggcga gcctagatct caagttccac aatgcaccga 240
atgaacttgg gaagatggaa acctcaccg aaccgaacac aagctcaaga aggaagggt 300
tcagatgggg caacgccatc agttatgact ttggatacga tggagatgcc attgacattt 360
cagatcat 368

<210> 16638

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B7

<400> 16638

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gtgtcctgaa catgagaagg cgattctgga acgtttgctt ccataccatc cacaatataa 120

tgagaaaatt ggggtgtgga ttgactacat cacggtaggg ttacatccag aattcgaaaa 180
 ctcaaggtgt ttattcatat ttaggaagga tggcgagcag atcgattttt cgttctggaa 240
 gtgcgtaaaa ggtctcattc ggcaaaagta ccccatgtac gcggacagtt tcattctcag 300
 gcatttccgc aagacacaag actactgaag tagttgctcg tacggctgtt tcagtgttat 360
 atttttctgt gtaattgatt ttgtcctgtc ccctttc 397

<210> 16639
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B8

<400> 16639

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 gagaaacggg cacacgcaac tgatcaaggc aggcaaccaa tattcacgtt cggcaatggg 120
 cgacctgatc cctgggctgc cggatgaagt ggcgagggag tgacctgtcc ggggtgggctt 180
 cgaccagctg ccgggtggtc gccgcatttc gcgccagtgg aagtcggcgg ctgggacccg 240
 gagacgtggg cgccgacgga cgcggtgctc gtctacgact tcctgtcggg cgcgtggcgg 300
 cgcgggcgcg ccatgcccg cccgcgcagg tcctttcttcg cctgcgcggc cgtgggcggc 360
 gccgtgtacg tggccggcgg ccacgacgcc gagaagaacg cgctgcgctc ggcgctg 417

<210> 16640
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-B9

<400> 16640

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 gatcttcggg gatgcaatgt attccgggac tgcgtcaact acattctcag atcatgaagc 120
 tcttgccgat aggtaaaggt tgctcctgtt ctgtcctgtg atgaacagcc gtgtgatgct 180
 ctagcgggtc aagtgtctct ggtaatggaa gttgtagcac ccatgcgcct gtgtggggtc 240
 tacacagtga tttgtacact attttaaacg ttaataataa ttgttgacaa atgatctcat 300

ccctttgtac ctatataagt aaagtattcc attaataaag acaatagagt tttcactc 358

<210> 16641
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C1

<400> 16641

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gagtcatggc caccgtcagc gccgcggtgg tgaccaccat cgttgcccgc gccgcgatcg 120
ccaagcccaa tgcgctaggg ctgcctgcgc tgagggccac gagcgagagg gtgcggtgca 180
tctacgcaa ggacgcggcc ccaactcagca ccaatggcgc aagcgcgtct ctgctcgccg 240
caactggcgc ggtgactgcg tcggcggggc ccgcgctggc gctcgtggac gagcgcatgt 300
ccacggaagg caccgggctg agcctcgggc tcagcaacaa cctgctgggg tggtacctcc 360
tgtgggtcct ctgcctcacc tgggtccctct acacc 395

<210> 16642
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C10

<400> 16642

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tcacttgatg aattttgtca tgtcagactc acctctgagg cagtatgccc tgcctttgct 120
gtgtgatatg gctcatgctt ctgcgaactc tagacagcag ttgagggctc atggaggact 180
agatgcgtac ttaaatctgt tggaagatga tgtatgggcy tgcacggcat tagattctat 240
tgctgtatgt ttggctcacg ataattgatca tagaagagtg gagcaggcac tgttgaaaaa 300
acaggcactt caaaagttag tgaagttctt ccaagactgc acagaacact attttgtcca 360
tatattggac tctttcgtga acattagaat gaaatcttct aagcgaaaca cagca 415

<210> 16643
<211> 394
<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C11

<400> 16643

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gccgtcaagg agccgtccag gtactacgac cccaaccct .accggcccc cgcggcctac 120
gccaacacgg gcggcggcac ccgtgacccc tacggctcgt ccgtgctgc tgccggcggc 180
tactacggct ccggagggcg ataccgttcc ggtgggtggc cctacggtgg cggcgcctac 240
tgcgccgcac atccctatac cgcagcgccc cggcgaggat acccttcac ctactgcgcc 300
gctccgccc ctcagccagc ggcagagtac ggcgctcctc ctgcgctgc atacggtgct 360
cctcctgtcg ccgccaacgc cgcgtccggg accg 394

<210> 16644

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C2

<400> 16644

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aagaggctgg ccaccagtgg cgccaacttt gcgcgcgcct acaccgtgga gttcggcagc 120
tgccagtccc cctacaactt cactgggtgc caggacctcg ccaaccagac gaggggtcccc 180
ttcatcagcg acgacctcga gattgagtgc gaggggaatg agaagttcaa gtgcggctcc 240
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atcacctgtc atgtcgagcc gtaatatgtc cacactgcag ggaaattaaa tcgtcaggtg 360
taattgtgcc cagtctgttt caatcatctc aacaaccgag tcatgaacct cctgcatt 418

<210> 16645

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C3

<400> 16645

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 agataacgca gcaacaacca atatgtcaga tgtacaacgt gaaaattctc atgtacagaa 180
 caatcagaag tacgaaatta tcaatgtgcc ttctgattct agggcacttc tagttttcat 240
 taacaagaga agtggggcac agagtgggtga ttcactgaga cagcgtctgc aaattcttct 300
 taatcctgtg caagttttcg agttgagcaa acatcaaggt ccagatgttg gtttagcttt 360
 atttcggaag gtaaccatt tcagagttct tgtatgtggt ggagatggca ctgc 414

<210> 16646

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C4

<400> 16646

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 ttcattgcaag ttgtgcgac cgtaggtcgg tcattggcct tgttccagtgc cctgccaca 120
 ttctgtacg cctactgccc gctgcgttgc accgagatgc cttattttc tctttattat 180
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 gcattagacg tctccattag tttacctata tgatcatcta aaatattggt ttgcagtttt 300
 tatactgtag agtgaagttt gaatataaaa atgaggatgg tgctggatat agccttatag 360
 gcgcgcctg cagattaggt gccgcggttg agcttttgag ggccaggccg catatatatt 420
 aatacag 427

<210> 16647

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C5

<400> 16647

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gcccgtcatc aataagcaaa aggagttcta caataatgcg aaactaatca gcagatacaa 180
aacgacaagg aagcagcaat gtcagtcaaa cgaccatcca cacattccaa gccatgagga 240
tggtggcgac aatgcccac atgtaccgaa accgcactac cacggcaaga agcgcaccgc 300
gcatagtttg aacgaacagt actagaagaa acgcgcacag gatgagaaag ctaacagaga 360
ccaggatgca acaattcagg tgaagaggga acaccaggag aa 402

<210> 16648

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C6

<400> 16648

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aaaacacagg agatgattcc tgtaaaactt tagagggtgt tcaagattca ggcgatatat 120
tgtctgcgac tccacgtggt cttcagatgg cacacaatct atacccttat gacaacaaat 180
tggataaacc agatttgaag aaggaagctt ttgctgatca atcttcagct cttgggaatc 240
ctttaaaga ttttgttatt ccagagcaat cttacatctg gcagggtagc tttgaggtat 300
caggacatgg aaactccctt gaaatgttca atgggtttca agcttacttg tctacttgtg 360
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<210> 16649

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C7

<400> 16649

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ttgtgataat gcattgggca tgtgagaaga taacagcatc aacaactctt ccagatacag 180
tccttcttga tgggtctgctt gataagctca ggctatgtaa agggatatca tatgctgcag 240
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agtcacagtc ctctaagcag atccccctgt tgctcagcat cgatgaacaa gacaaagcat 360
tatcaaaggc aattgaaagt ggcgataccg atcttgtgta ccttgtgcta ttcc 414

<210> 16650

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C8

<400> 16650

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caggaagaga agccaatggc gctgtccctc tccctcgcgc gcccgcgcgc cctcgccgtt 120
tccgcccggc caggagccag gaagctaccc gcagccagcc tcgcattccc ggcgaaatcc 180
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ccggccacct ccaccacctc gctcgaggtc gtcgcggggg ggaagaaggc ctacaagatg 300
aagacgcaca atgcgtcggc gaagcgggtc cgggtgacgg ggacggggcaa gatcgtgcgg 360
cgggtgcgccg ggaagcagca cttgctcgcc aagaagaaca ccaagcgcaa gaag 414

<210> 16651

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C9

<400> 16651

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tgatggggct gtagttcttg ggactccagt tgcacctcct gtaaattggg acatgtatac 120
tgatatcagt cctgagaatg cgggtgctgca aggacagagg agattaagca aaggcgtgga 180
ttacttggtt gaagcatcag cagcagaggc ggaggcaatc agtgctacat tagctgctgt 240
gaaggccacg cagggttaatg gtgagatgga gcagttgcc gacaaggagc agtctccaga 300
ctccacatca actagcaaac attcaagcct catcaaactg gacactgctc tttctaacaa 360
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<210> 16652

<211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-014-Q1-E1-D1
 <400> 16652

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 tcaaaagatt gcataggaat accttgggga aagagaaaaga tggaagcagg gttgaaaaga 120
 gaaagaaaaa atcagctaag caagagaaaac attcaagaaa tggttaaaca gcggttttgc 180
 cccagacagc tgacccggtt tttgttgatc cacgaagtca agatcaatat tttgctgcag 240
 aagatattgc atcagaccaa tctgttggtg gacctttctt ctaccagga tatcccatga 300
 ctgttggttc aacaagccag attcaggggc atacgaatat gcaatctgag cctcagtgtg 360
 catctcaaga atattctgct tatggcacag tgtcagccac cagcaaaatt tgggtggtgg 420
 aaaaaattcc gaaaggg 437

<210> 16653
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-014-Q1-E1-D10
 <400> 16653

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 cgtcgagtcc ctccccgctg cgcccttgcc ggttctctgc tcggccatgg aaatcgcaac 180
 cccagcttc ctctgtcgag tccggccgga gctccctcct gctttgctcg tcggctgcgc 240
 gagctagccg gcgtgctcct gctccagcct taacgcgcgc gcctgctctc tctgtccggc 300
 caccctcgcc ccacctctct cctttgtcgg cgctctgtcc agtctcctcc atggccgcgc 360
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<210> 16654
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D11

<400> 16654

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tcggcttcgc agcatgcagt tgctgtatat gatggaagaa cactctgtta ctgggcatgt 180
tgcgcgggtt ccacgcgtgt aagtaatgta aaagtcgcta tggtaggtat ttccataaccg 240
tcattagtgg atcattgatt ttttttttgt aagaagggtta ttgcaatgcc ctttttcggg 300
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<210> 16655

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D12

<400> 16655

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tcaagtgcgt ttgtgtgttc ttgtttgctt ttagttgcga ctaggctgta gatccttctt 120
gtatcacaac aatatatgta ctgctactgt accggccccg gcctcttggt taatctgaaa 180
tgctcattgt at 192

<210> 16656

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D3

<400> 16656

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aagatcatca catcactcta gctcacctca ctgagatgaa taacacgtag ctgacaaaac 180
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aaaggggggg cccctcaaa aggtcccaat gttt 274

<210> 16657
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D4

<400> 16657

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ctattaggga gattcttgaa aaggagaaga aggagagagc ttcagcagaa acagaaaata 180
ggccattgcc tctgtcgcac actagcaatg atgtccgtgc attaagaata agtgatttca 240
tacatgcgca tgaacagggt tgtgcaagt tttcctcaga ttccagtaac atgaacgagc 300
ttgtgcaatg gaatgatctc tatggagaac gcgggtcaag gaaaaagaca acgctaagct 360
acttcatgta gctgatgttg caagtatatc gggagaaatg ccttggcaca aagcagaaat 420
g 421
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<210> 16658
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D5

<400> 16658

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ttagtcgcaa atctttttcca aatggctcgt gaaaatgccc cttccattat ctttattgat 120
gaaattgatt ctttatgcgg tcaacgtgga gaaggtaatg aaagtgaagc atctaggagg 180
attaagactg aacttcttgt gcaaatgcag ggtgttggtc ataattgatga taaagttctt 240
gttcttgctg ccacgaatac gccatatgct ctggaccagg ctgtgcggcg aagatttgac 300
aagcgtatct acattccgct acctgacacg aaagcaaggc agcatatgtt taagggtccat 360
ctcggggata caccacacag cttaactgaa ag 392
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<210> 16659
 <211> 417
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D6

<400> 16659

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catggatcag cagccagcct tctctgagcc ttgacctgcg cgtcggcctg cgcgcgtca 180
gcctccacca ccaggcgccg gtggccgtcg ccttgcccag gccaagctg ctcgtcgagg 240
agaacttctt cctgcccgtt ccatagaacg aaccagaggt acgcatatat acactacact 300
ccgatcttat gtgcgacgca agcatggcac caccacacct ggactggacg gacacggcgg 360
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<210> 16660

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D7

<400> 16660

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gacctctccg tcgtgccatc cctctccctc tectcgcgcc gtgcccttcc actcccggcc 120
aggagggcag cgcgcggtcc ggccttcgtc tgccgctgca gttgctcccc ggacgcgtcc 180
ccggtggcca ccgggcggtt gttcgctctc ctctcgcca ccgcagcagc ggtggggggt 240
ggcgtggccg gaggcggagg ggaagccggc gcggtgtcca cgagcaggag ggcgctcagg 300
gcgtccaaga ttctgagag cgaattcacc acctgcccc atggcctcaa gtactacgac 360
atcaaggtag gaagtggggc tgacgctgtt aaaggatccc gtgttgcggt aca 413

<210> 16661

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D8

<400> 16661

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cgtcgtcatc aggggcctga agcgggacct cggcgccgag gccgctcccg tcgtcgtctt 180
cggcggctcc tacggcggaa tgctggcttc ctggttcagg ctcaagtacc cccacgtcgc 240
cattggtgcc ctagcttctt ccgcgccgat cctgcagttc gaccacataa ctccgtggag 300
cagcttctac gacgccgtct cgcaggactt caagtccgag agtccaact gtttcggtgt 360
catcagggca gcctgggacg tcctgggatga gagggggggc acagacaaag ggctcctg 418

<210> 16662

<211> 396

<212> DNA

<213> Zea mays

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<400> 16662

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cttcatcagc ctctgcctac agaagaacc ggtgaaccgt ccgtccgcga tgcggctgct 120
gcagcaccog ttcgtggccc agccgcagcc gcagcccctg gccgccccgc cgtcatgatg 180
gctcgccgaa atccacaatt catgaccgat ttgattgatt gattgcttcc cgtcgtggta 240
caactgaacg cggcggggcg attgatctct caccttgctg cctgaccttt ggggtggatg 300
gatggttggt tgcattgatt gttgtggatg gccatgagat gcggtacct gagacgtccc 360
tcctaatact agctaggcat gcaagtggct caggac 396

<210> 16663

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E1

<400> 16663

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tatgccaga ctcgtaagct atttgacac atgtcggaga gaggaattcc actatctaca 120
gtcactttta aaagcttggg gtcatttgcg acacaatata aggaagtttc aaatatttag 180

gatcagatgc aaagagctgg tctgaaacca tatgttgtga gctaatacccc gctcagcaaa 240
gottatcgga aacccaggac ggaataacag gcattggagg tttttgaaga gatgcttgat 300
gctgcagtca ggcccacacg cacatcatatc aacatTTTTgc ttgatgcatt tgccagatcc 360
gg 362

<210> 16664

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10

<400> 16664

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cttcagataa tgtgttcgtc atccagatcc aacacccacg atctcgcctt gatagggttg 120
atttagtggt gactcctcgc catgattact atgctttaac cgctagtggg caacaagaag 180
ttccacacct gttccgcaga tggattactc cacaggaacc acccaggagt aatgtggtac 240
ttactgttgg tgcactacac caggctgatt ctgctgcgct acggcttgct gctatagcct 300
ggcatgatga actcgccctt ttgcctaagc cgttgctaata tgctcagcatt gggggcccca 360
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<210> 16665

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E11

<400> 16665

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gcagaggcag ttgtgttgct ggtcgggtccg tccatggggc ccaagagagc aatgtcggcg 120
ggggcgggcg cgagacagcc gaggtgcgc ggcgtgcgga agcggccgtg gggccggtac 180
gctgcggaga tccgcgaccc ggtgcggaag gcgcgcgtgt ggctgggcac cttcgacacg 240
tcggagcatg cgccccgggc gtacgacgcc gccgcgcgca agctccgcgg gcccggcgcc 300
gccaccaacg accccgcccc ggagccgacg gctgatgcgt tggcggacgc t 351

<210> 16666
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E12

<400> 16666

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 aaaagctagc acaaccctcc atgcttcaca aaagggttga ttatcctcaa agaagaagcg 180
 gtccaagggt tctctgtcta gtatgaatcc tttaggttcg ttgtggaaga tgaccggtag 240
 gagacttctt acagccaagg aagaggttga attctcagaa ggtattcagg atcttttgaa 300
 gcttgaggcg atccaagctg agcttataga gtacaatggc ggtcagccaa ccttctcgca 360
 gtgggcaaca gcagctggag ttgatgaaaa aactttgcgc aagcgcttg 409

<210> 16667
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E2

<400> 16667

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 aagaggcttg cagaagaggt gacgcgattt gttcatggcg aggagggatt ggaggaggca 120
 ttgaaggcaa ccgaggcctt gagacctggt gctcagacac aattggatgc acaaacaatt 180
 gaggggatag cagatgatgt gccttcatgc tcttttagctt atgatcaagt gttcaagtct 240
 ccacttattg atttggctgt ttccacaggt ttgctcacta gtaagtcagc agttaagcgg 300
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<210> 16668
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E3

<400> 16668

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gtctgatctc gggaggcatg ttgaagatgc accactggta ctatcacaag aagactaggt 240
ccttctaaga catgcttgac aacggccaaa tcagcgttgt cgtcgatgag taaagagttc 300
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<210> 16669

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E4

<400> 16669

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ccgtgtcgga gaaccgcccc ttctctcgga cggacgagaa gtacaacgag gcgatcttga 180
acacgggaaa ccggctggcg gcggcgatcg acgggctggc cggatactgg tggcccgtcc 240
ttcaaggaga acaatcggcg agtctacatt cgagagcaca gaagagaccg aggagaagcg 300
cgggcagttc aagctcgtcg tcggcgggct gctcgtcatc a 341

<210> 16670

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E5

<400> 16670

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cgtcctcttc accaccgatg attttattct atgggacggg agcgcaatct atgcacagga 120
acttttacac tatccgcaag cagctcgatc atctcatggc ggataaacgc aactgcgatg 180

tgcgtgaggt cattcgctcg tactatcatc gcgacgtcta ccgcctctag ttcaccagac 240
 tctgcaccta ctaccacttc caacttacta agattgacat ggacccgtgc acgaaactga 300
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<210> 16671

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E6

<400> 16671

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 tcaccggatt cagtgtccga gctctcacta gagctcgtga cctcgccggc tccctagagc 360
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<210> 16672

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E7

<400> 16672

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 gatcgtcaag aagggtgctc catccgctg atgaaaccaa accggccctg ccttatacta 300
 cgactatagt tacatgaaca tcataaatta ctgataagtt tgaagaaatt ggccgatgac 360
 tccgacaacg tactcatcaa agattattgg atgggttggtg tccaccgct gtg 413

<210> 16673
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E8

<400> 16673

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tgatatgcct gcacttcgcg gtaaagatta tggaaagaca aaaatgcggt atccagatta 360
cactgaaacg gaatcaggcc tccagtacaa ggacttgcgg gttggtgatg ggccttc 417
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<210> 16674
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F10

<400> 16674

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cttcggggtc tgtcctcttc ccgtgccgc gttactacgg cactgccac ggcgaagccg 180
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tacttgcttc tctggaccg cgt 383
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<210> 16675
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F11

<400> 16675

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gaaacgaaaa agagcaacca tgtcacgagg aagcttgaga agcgcaagga gggacgtacc 180
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cgccctgcac agtgtggccg agctgatggg tacatccttg agggtaaaga gcttgagttc 300
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<210> 16676

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F12

<400> 16676

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<210> 16677

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F4

<400> 16677

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gaacatgacc tccccgaagg gcggcggcga cgctcgcggg gggttccggg acaaagccag 360
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<210> 16678

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F5

<400> 16678

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gcagatattc catccctccg ataattgaca cgaatctacc atgatctgag gattcgatat 240
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ccagcaatag aggaagatct aaccaagtgg ataccgattc ttaggaacat ctgttggtac 360
ttggtgctat cacctcatga tcctattcaa tcgagcc 397

<210> 16679

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F7

<400> 16679

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ggtggtgcgt gccctgttga cgatagggca cgcggggcgc gggcagcttg taagcgttcg 240
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 aagatggtaa tggagtgcgt gtgtatgtat gtgtatgcc agggcgcgcg cgcgcggctc 360
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<210> 16680

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F8

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<210> 16681

<211> 402

<212> DNA

<213> Zea mays

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<400> 16681

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 tgagcgagga gaaagaagtg gtacaaagga cgatccggag gcgagctgcc ttttctttgt 180
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acaactatat tacacgggcc tctggactaa tgtatgagga ca

402

<210> 16682

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G10

<400> 16682

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catcgagcat ccaggcatgg aaccgggagc caaatcggaa gcaaagcaag gtgaggcggg 180
atctggcgcg ggggcaagcg gcagcggcaa ggtgtatcat gacaggcaga ggctgcaatt 240
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gttggaacggg attgctggaa atcttgttct caatgatcca gacaagggcc aatggactcc 360
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<210> 16683

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G11

<400> 16683

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gggcgatgac gctgggtagc tccggcgccg gatcgagcgt cgtcgttccc cgaaacttca 180
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gaatggatga tgccgatgac atctacatgc ggtcatggac tggtagcatc attggccctc 300
acaatactgt acatgagggg cgcacttacc agctgaagtt gttttgtgac aagggtatc 360
cggagaagcc accatctgtc agattccact caagaatcaa catgacatg 409

<210> 16684

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G12

<400> 16684

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ctctccctcc agctgctcct caccgcgcgc gtgcgcgcag tcgtcgtcaa ggtccgcgcc 180
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atcctgctcg gcctcttcag cgttgccatc agctttgctg tgggcatgac atgtgccttc 360
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<210> 16685

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G2

<400> 16685

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tcccaatggc aaggatgata tgatgaattt tgagatcacc atccgacctg atgaaggata 180
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ctgtctgaac attctgcgtg aagattggaa gcctgttctc aacatcaaca ccgttattta 360
tggcctgaat cttcttttta cgcaaccaa cgacgaggat cctttgaac 409

<210> 16686

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G3

<400> 16686

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gcctgtcgga cgagctcaac agggagggcg cctgcgacct ggccatctac ccggacgaga 180
acatcgccat caccagctgc gccatggacg gctacctoga ggacgggggg gatcgggtgca 240
agctggacat tgtgagcgga tgcacggacc ccagctccga catgttcgac ccgctaacca 300
ccgtctacga cgggtcctgc ccctcagat ctgattccga cgaatgatgg tggagcttca 360
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<210> 16687

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G4

<400> 16687

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<210> 16688

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G6

<400> 16688

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tctcatccgc gcgcgggccc gggagctcga gaccttcctc agcgcgccgg tgccggaacc 180

cgagctgttc gcgcgcctcc gtcgcgccta ctctcctcg gcgtcctctt cgcggacgcg 240

gctcgacctg tccgccatcg ggaaggcggt cgaggccgac gcgtggaggg gcgccaggac 300

tgccaggtgg aggtgggagg cggagacgga ggcggaggag tgggagccag tcaggatggt 360

caaggcgcac ctcagcgagc tcgagcggag gaggctggcc cagtcgcca gcgaca 416

<210> 16689

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G7

<400> 16689

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gcatgtgctt ctctgtgcta tttcctgtcg aagatgattg ggaagccact ggtgttcaca 120
ctgtggccag ataagctcag cttcttccag agacagggtg ctaaaagaag agagaagttg 180
ttgaattaca tgcttttccct cagggtgacc ccaacattgc caaatacctt catcaactta 240
gcttcaccca tagtagatgt cccctacat atattcttac tgggaactct cattggtctt 300
atcccagctg cttatgtgac tgtcagggtt ggaattgctc ttggagagtt aacttcgctg 360
agtgaccttt acgacaccca gtcgataaca ctgctattcc tgatcgggtg tgt 413

<210> 16690

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G8

<400> 16690

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ccaagctctt ccccaacctg ttcggccagc cctcggcgtc gctggtgcct tcggccgagc 120
ccgcggcgac caggccgcta aaggctcggg tcgtgctctc tggtaggacag gcgccccggc 180
ggcacaatgt catctgcggc atctttgatt accttcagga gcgtgcaaaa ggtagcacct 240
tgcttggtgatt caagggaggc cctgctggga tcatgaagtg caaatatgtg gaactcactt 300
cagactttgt gtatccctac agaaaccagg gcggattcga tatgatctgc agtggaaggg 360
acaagattga aacaccggag cagttcaagc aagctgaaga cacagccaac aagcttgat 419

<210> 16691

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-G9

<400> 16691

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 catcagttgt ctgaaacatg ttgaaattgc tactaagagt agtgagtgtt gcatcatagc 180
 ctctcgaatc aatgatgtct ttaaagaatg gtatgccatg tgtaaaaagt gctactacag 240
 ttgaggtcct agtgcaccag tattgatggg aacctcgtca aattgattga gatgcggaca 300
 tttgtgttaa catggtgcca tgggttgccc actgaaagtt gttgcagtta ctagtaagtt 360
 caccttgtgt taaattctga aaattaacag tcacagta 398

<210> 16692

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H1

<400> 16692

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 tcgcttcagg cgccaatttg ctcatTTTgga agaaggtact gcaaagggtg aaaaacacag 180
 tccacagctg cgacagaatg tttctTTTgcc aagggaaga gtaattggca ataaacatgg 240
 agatggcaat acaggtgata agctagcgca tgcctcagtg acggatggca tcagccaacc 300
 gagcttgagt gagagaagct ttctgaagag tgaaagcatc agtgcttcca actgtatacg 360
 tgaaaaaccg aagcatgtca aagatggaga atctgtTTTa aagaacgtgg gataaacagt 420
 ccatgaatt 429

<210> 16693

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10

<400> 16693

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acggtagttg cacttgccgc gcttctcttc ttgtccttg taacgtgtgg ctctgctgcg 180
agaccggcga gctttaacgc ctccgacttt accgccgacc ccaactggga ggctgcccgg 240
gccacctggg acggtgccc caccggcgcc ggccctgatg actactgtgg tgcctgtgga 300
ttcaagaacg tgaacctgcc gccgttctcg gtcatgacat tgtgcgggaa 350

<210> 16694

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H12

<400> 16694

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tcttggcact cccgctctgt tcatcaatcg catcgacagg agcccatccc ctctccctc 120
aaacgacgcc gggtgacaag caggaaaagt agtgctccat gattctctat aatatccgaa 180
ataaattagg attaaagcaa gaataggaag ttattcaata ctcaaaagta aagggtttcc 240
ggctctccag ttaaatgacc aaatgacctg tagaatgaca gcaagcaagc aagataaacg 300
gcagacagat ttcaccaact catagcagtg cagccaggg aagaaagcaa aatttgacac 360
atctcattgt ctaataagtt tgaagcctca 390

<210> 16695

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H2

<400> 16695

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gacggagtgc gcgtgcacag catggttctc cctgggtctcg tctccagcac gtcgatcaac 120
ttctctggcg caggagagat gtacacctta cggcatgacg ttgcgaatgt tcagtgcctg 180
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caacgcagat atcatctgac gtcgcaacaa ccaaaacgac agagatttgg aaaataaagg 360

ctgcacagaa gacgtctggg gttttgtgtg caccaggctg cgcagagaac gtctgtcatt 420
 ttgtgtgc 428

<210> 16696

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H5

<400> 16696

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cctccgatcc acaattccgc catcggtatc cgcagtcagc gcaacggacg tgtgaacgaa 120

gggggacgca gaggaagata gggctcacgt tcgggaagca cttcagcggg cgcgtcgtcc 180

catatggaga tgcaggatcc tcatg 205

<210> 16697

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H7

<400> 16697

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cagatccgca gcagatggag gcgaagagca tgctgccgga ggtgaccatc gtcccggcgg 120

cacggccggtt ggctggcgac ggcacagtcg acgcggcaaa ggccggcgga ggcaaggagc 180

ccgtaagccc gggcactccg tctcgggtgg ccgccggccg cagcagctgt gaggagaggc 240

gcgcgggtgga cggcgctgcc ctgcctgctg ggaagctcga cgccctctgc caggagtcct 300

gcccgtcacc ggccatgagg gcgcgcttcc cctactactt ctgaagcttt cctgttgagc 360

tcttgccctga gttcttgagc gg 382

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H9

<400> 16698

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cgcccgcagt gggcatggac ggtagatcgg acgagacggg tccaacacca ttccacacga 180
tagacgacaa gctcaagccg gactgagtca ggtaccagca gattccagtg ggagggccgt 240
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gacaagtggg gggatagccc cgcgctattc geagaccggg agactttcta caaccatcgc 360
aaagtgtctc tcattccaaa ccgcttgact aagcatcggc acccccggtt ttg 413

<210> 16699

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A10

<400> 16699

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tccaaatctc caatactact acatatgaac ggacaccact tttgtgcgtt tctgttgacg 120
ggaacctgtg taattctttc acctttttt cctgtgggtt gacagacaca gacactgtaa 180
tatgtttatt aaaaacactc atccatatag ctgactgtgc acctcgtctc tcaattcatc 240
ctcatgctct actgcagaac gttcaaaaat gagatcgtga gggcctacgc acaag 295

<210> 16700

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A11

<400> 16700

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cggctccttc agagacggcg tccacgtcgg tcaccaagac ggtgaacggc tcccaccact 180
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agtccttcaa cgtgggggga ttcgactggg cgatctactt ctaccccgac ggaagagcg 300
 ccgaggacgg cgctgcctac gtctcgtctt tcatagccct cgccagcgag ggtaccgatg 360
 tgcgcgcgct gttcgagctc acgctcgtcg acca 394

<210> 16701

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A12

<400> 16701

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 catacacggt gtccaggctg gacacatga tcgtgaatgg ctccactag gtgacactcg 240
 cgggctagtc tcaactcaaaa ggaagccatc tgtggaagtt caacaattct tagtctgca 300
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<210> 16702

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A2

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 cgcggcattc ctgtccatcc gcttaagtgg cgcgacggcg acgctgttcg ctggactggc 180
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 cctcaagggg gagcttttcc tgctccgct taagcgctcg gcgcgccagg agttcaagaa 360
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 ggaaa 425

<210> 16703
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A3

<400> 16703

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caacgagacg gccacgggcg tcaccaacga cctggccgcc gtgcgcgcgc tgctggacaa 180
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gccgacgggg atgggcatcg tgtgcgccag ccccatggcg ctggaggcca acaagacggc 360
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tact 424

<210> 16704
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A4

<400> 16704

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gccgcgtcat cgcagcagca gcagcagcag ctcgtcgcta cacaaccgag gatatgttct 120
ctatcatcgg gtcccgacat gctcggcagc tccggtatgg aggaccccg cgcagaagaag 180
cggcgcgggc ggccgcgggg caccggcaag aagcaccagc cctcgacctc acaaggcaac 240
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gaggacgtgg cggcgaagat cgttgcgctc gccagccagt cgtcaaaggc gatgtgcgtc 360
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atg 423

<210> 16705

<211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A5

<400> 16705

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 gtgcgcgcc gcggcgccgc gcgcgcggc ggtgctgctc gagggggcg tgccgccgcg 360
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 cgaggccgcg c 431

<210> 16706
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A6

<400> 16706

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 cgtggggatg gtggcgccg tccgggacgc gccggtggc cgcgagaacg acctcgaggc 180
 catcgagctc gcgcgcttcg cggtcgccga gcacaacagc aagaccaacg cgatgctgga 240
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 gaaggcgtgg gagaacttca agcagctgca gagcttcgag ctctcgag acgccgcggt 420
 cgcctgaggc gcac 434

<210> 16707
 <211> 433
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A7

<400> 16707

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attcttgaca taccatctgc aaagtctgaa tttcagttgt tggatcaaaa agccatttct 120
gagggatggg tagattcttc ctatgtgaac tcaggtgtca acggaagcgt tgaagacgat 180
gaacatgaga agctggctag gtacaagagg gaggtgttat ccataatata cgagtacttt 240
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aatccgatct tcgtcaagaa gtcataaca attgctatgg accgcaagaa catggagaaa 360
gaaatggcat cggttcttct cccttcatta agcatggagc tgttctcgtc tgaagacatc 420
gccaagggat ttg 433

<210> 16708

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A8

<400> 16708

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gacaggaagc agaagtgtc catgccacgc atatcaaaac gatactagca ctgtgttcta 180
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catagccttc atgtaatttt tttttgttgg accaccttct aggtggtgcc gtttgtatca 300
taaacataac ttgaagttta gcgcagcaga aacacatgta tattgcgttt aaaaaaaaaa 360
aaagcatcaa atcaactcac atcagtgaac agagaccagt tcacaaaaaa aagggcgg 418

<210> 16709

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9

<400> 16709

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aaagaggcgc atgcagccag tgggaataat agttttcgca tcagtgatgg gcacacttgg 120

cttccaaagtg ctgatcgaat cagggcgcca gtcataact caggagcacg cggatttcaa 180

gttcaagcaa gagctgtgga tggtcattag catgtcctct gttgcggtcg tgaagttctt 240

cctcatgctc tactgcataa cgttcaagaa tgagatcgtg agggcctacg cccaggacca 300

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caaatgggtg atggaccctg ttggcgccat actga 395

<210> 16710

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B1

<400> 16710

tccgggtcga acacgcgtcc gcagacgcgt ggggtaggat cgatcttggt agcagagcag 60

aactcgttac taaaaaaatc tatattatat tacagacact atagcttttt gataacttgc 120

cgtgcaaattg tggtaac 137

<210> 16711

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B10

<400> 16711

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tgctgatggt ctgggaggac tggaaccagc caagcaaggc cacgtactgg gatctggcca 180

gcgctaaaaa ggatgaggcc gtattctgcc agctggactt tgataagttt aaagatgtcg 240

tagagaagtt cagagtgaag gctctgccga cgttcctcct gatcaatgag ggcgaggagc 300

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385

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<211> 366

<212> DNA

<213> Zea mays

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gttcctgccg accaggccgc tcaaggacga gctgcccata ttccagtgcg gcggcatcag 240

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<210> 16713

<211> 330

<212> DNA

<213> Zea mays

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cgtggacaac ctgctggtca tgagcgccac ggacgttgtg gttcccgggg tgctcacagc 300

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<210> 16715

<211> 438

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<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B3

<400> 16715

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<210> 16716

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B4

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 atggatcaga atgcatacgg gcgacaagga atggaagaac atacgtcccc acaaaaagtt 180
 tcatggggca acaccacaat cgtctgcatt taagcagtaa tgccgaatat ggagtttcga 240
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<210> 16717
 <211> 363
 <212> DNA
 <213> Zea mays
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 cccgcgtcgt caagacacct gttgattagg tgggaaactt gtgttccagt acaccaagaa 180
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 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-B6
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cagcacgacg ccggcgtggc gtggctgaac ctcacgcttc gcgcggggcga gtcgccctcg 180
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<210> 16719

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B7

<400> 16719

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 cgggcgggtg gatcacgagt actcctacct gttcaagatg gtctcatcg gagacagcgg 180
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 ggctcagatc tgggacacag ctgggcagga aaggtaacct gcaattacaa gtgcttacta 360
 ccgtggagcc gtgggagcac tgcttggtga cgacatcaca aagaggcaca gcttcgacaa 420
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<210> 16720

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B9

<400> 16720

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 gcgcaaagtg acggtgtaac tgcaaccggg gtaatggctt gcaagttttg ttc 173

<210> 16721
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C1

<400> 16721

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caggcttcag gagctactct tccaggttgc agaaaaata tcggtcctgg tggagacaaa 180
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ggctccagag gggc 374
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<210> 16722
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<223> Clone ID: LIB83-015-Q1-E1-C10

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ctcttcgccc cggcgggcgc tcatgcttca cagccatctc gtactcggct cgaaaggtgt 180
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gtttcatact tgccgtgttg ccagcactca ccagattgc ttgtaggccg cacctctaag 300
aaccatgcct agctgatgtc gcctccgtca gtctgtcagc attcaagc 348
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<210> 16723
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C11

<400> 16723

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cccagcttaa tgatcacgtc agtaggatgc tcacgtcgct tgactaggat atgagaaatg 180
acacatccaa ctggttctat caaaagacat tacgatataa gctactccta aaagatcatt 240
gtctcaacca acacaaccta tgacagcgac agtggttacct caactatatt cacctgaagt 300
cggtgccatg ataacggcaa tctctcaacc aacggcatca atgggtccgga aagtactgcg 360
ccaaccta 368

<210> 16724

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C2

<400> 16724

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gcgccaaggg gttctcgggc ctgctcaagt ccaacgaccc cgtgggcttc aaactcgtcg 420
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<210> 16725

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C3

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<210> 16726

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C7

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 tctgccaatg atcagtgata tcatggcttt gttgagtacc tgatctgtgg agtcagatta 360
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<210> 16727

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C8

<400> 16727

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<210> 16728

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C9

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<210> 16729

<211> 169

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D1

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 <223> Clone ID: LIB83-015-Q1-E1-D10

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<210> 16731
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 <223> Clone ID: LIB83-015-Q1-E1-D11

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<210> 16733

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D2

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<210> 16734

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D3

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<210> 16735
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-015-Q1-E1-D4
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<212> DNA
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384

<210> 16737

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<223> Clone ID: LIB83-015-Q1-E1-D6

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<210> 16738

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D7

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tctccaagge aaggtaact gtgaggtcgt ttgggatccg gcgcaatgag aagatcgcat 240
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atgagtaaga gctgctgagg aggaacttca gtgacactgg ctgctttgga tttggtatcc 360
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<210> 16739
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 <212> DNA
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<223> Clone ID: LIB83-015-Q1-E1-D8

<400> 16739

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gaccacgtcc ttcccttctt tcaaggagca gcagcaacag caagtcgaag cggcgactaa  180
gagcgccgtc ccgtcgagca acaaggccag cggcggaagc ggcggcagca ccaagcttga  240
ggacgggtac aactggcgca agtacgggca gaagcaggtg aaggggagcg agaaccegcg  300
cagctactac aagtgcacgt accacagctg ctccatgaag aagaacgtgg agcggtcctt  360
ggccgacggg cgcgtcacgc agatcgtgta caatggcgcg cacaaccacc ccaagccgct  420
gtccacgcgc cgcaac                                     436

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<210> 16740
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-D9

<400> 16740

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tactgcgcag gaatgtcgtc aatggcccaa ccacgcctgc taggtaatgg ctttctagag  180
cttgcaagtgt gcttgggtga agaagcagtg ccgcagtgca tcaatctgtg tgacaaaagc  240
aaataaagat ctgttgctct tttctcgctt atacctgttt aagctgtcta ttgtattctg  300
ttgagaaatc aatcacatct atactttgtt tctgctag                                     338

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<210> 16741
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E1

<400> 16741

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ggtgggatta ggagattagc gatggcgacg tggcggccgg cggcgtgct ggtattggct 180
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accgagtgca tccacgagtt tctgccctat gaggcgaca ccgtgtccgg gaacttcgtc 300
gtcgtccacc acgacatctt ctggagctcc gaccatgcag gaatccgact cacggttaagg 360
tcaccaggtg gcaacactgt gtacacattg gagggaaaat ctggtgagaa atttgagttt 420
aaagc 425

<210> 16742

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E10

<400> 16742

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attgaacaga acgaaagcga gacctgctgt accattgttc agtccgtgaa ctttatattc 180
atTTTTggccc cacctgatga aataaataaa taaactgcc aTgattttttt ggtgccactc 240
ttcaccctg attagtgtat gcaattgcat gatatacgca gtaataacat ataaatatct 300
atgtatcgat catgtgcttg aaaaaaata taagaatg 338

<210> 16743

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-E11

<400> 16743

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tatcgaggag gtttttaggg tgggtggtggt gttgtgagga gctgctgccg ctgctctcca 180
gtctccaccg atggcgatca agaacatgac ggtggcggcg acgacgcggt cgctggacgc 240
ggacatgacg gtggacgagt tcaaggagtg gctgcggcgg ttcgacacgg accaggacgg 300
gcgcatcagc cgcgacgagc tgcggcgcgc cctgcgtgcc atccgctccc ggttcacggg 360
gtggangagc aagcaaggca tcagttacgc cgacgctgac cgggacggct acatcgac 418

<210> 16744

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E12

<400> 16744

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aagcgcccca gggggccagg ggaggacacg acgcgcgcat caggcatcat catcatctca 180
gactcggagc atgccatggc acgcaactga ctgactgact gactcgaaac acacacagcg 240
acgcgcgtat actttattaa gctttataat tagctagctt cctccggccg gcctgcaggg 300
tggagcacct agctcacttg ccgcagttgc aggggtcgca ctggcagttg ccgccgcact 360
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<210> 16745

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E2

<400> 16745

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ttcgccgcg tggcggtggc cgcgcctcgc cgccgcggca ccttcgccgt ggtcaggctc 180
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gccgacggac gccgcgccgt catgctcgcg gctgctcgcg cggccgtggc agccatcggc 300
 ggcgccggcg ccgccatggc gggccccaag aacgggacgc ccgacgcgaa gaagaagtac 360
 gcggccatct gcgtcaccat gccacccgcc aatgtctgcc acaactgagc acgcc 415

<210> 16746

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E3

<400> 16746

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 ctagttttga aatccttaca ccaatgtttc ctctatgata atgaccagaa gatccttgat 180
 tcctctaatt tccaggttct tttgaaacct attgtctccc agttcgttgt ggaaccacca 240
 aaatctgttg aatcagttct tgacgctcca tcaattgaag aagtagatga aactataatt 300
 ctgtgcttgg gccaaatggc agtaactgca cggacagatg ttctttggaa gcctcttaac 360
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<210> 16747

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E4

<400> 16747

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 agtgatgttt aacaaagcag ctctttcttc atacaaattc ccttgcgcaa atgtcatcac 180
 gtccttcag atggttattg ttgcgcacca cacctcttcc cttggcttat ttactctaca 240
 tgcttcgatg gaatcgggtc gtggagttaa cgttcctatg tatacaactc tacggcgcac 300
 aacagtcgtg tttaaatga caatggagta tttcctggca aagcagaggc acacccacc 360
 tataatagga agtgtggctt tgattgtatt cggagcattt gttgctggag ctcgagactt 420

gtcatttgat gctcgt

436

<210> 16748

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E5

<400> 16748

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gatcttttctg tgaagcaagt agacgggaag aagggtgactg atcctgcaa acaggacgcg 180
ctgcggtcac gcctgaggtc cgagacgctc catccgctca gggatcatggc cgtcggccgt 240
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cgcgtgttct acgacgccac tcttgctctg aaggcgcttg ggatctgcat cttctctgct 360
gagatcggga cgcaagcggc gtccgagcgc cactgggacg tgtacaggtt cctcctggat 420
gacagcaagg a 431

<210> 16749

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E6

<400> 16749

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acccgacggc aggcgcggag cagcagggag gcagcggcag gaagcagggg cgcgggggga 180
agacgacctc gcgcggggag aagggttca tcgaaggatg catcgcggcg ctctgctgct 240
gctggatctg cgagatgtgt tgcgactagg cagccccct cccctccctc cgcccgccag 300
gcttgacagg aacggagaga tctgctccac ccatagctgc agttgtggct gcacgtactt 360
gttgagctgt tgtgtgtgtt ccatctcggc actttttgat ttgttattag ctgtggtgat 420
gatgcatggg ctgccct 437

<210> 16750
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-015-Q1-E1-E7

 <400> 16750

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 accggccccg gcggcgccgg cgcggggccc atctgcgcgt ccatgtccat gtcctcttcc 180
 aacccgccct acgacctgac gtccttcggg ttcagcccca tcaatgagtc catcgtgtcc 240
 cgcgagatga cgcgtcgcta catgacggac atgatcacct acgccgacac cgacgtcgtc 300
 atcgtgggcg ccggctccgc ggggctgtcc tgcgcgtacg agctctccaa ggaccccgcc 360
 gtgagcatcg ccatcgtgga gcagtcggtg tcgccgggcg gcggtgcgtg gctgggcggg 420
 cagctggt 428

<210> 16751
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-015-Q1-E1-E8

 <400> 16751

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 ttgagcagcc ctccagatgt ttacagaagt ccacacacat tgagtcacaa agttacagat 120
 gatgatttgt ttgttgtgct tggtagtgat ggcttatttg atttcttcag caatgatgaa 180
 gttgttcggg tggtttatca atttatgcat gataatccaa tgggggatcc tgcagaatat 240
 cttattgagc aacttatact caaagcagcc aacgaagcag ccgaagaatt gatgaggata 300
 cctgttgagg gtaggagaaa gtaccacgat gatgtgactg tcattgttat catccttgga 360
 aatgcacaga ggacgatgac tgcacaaact tccttgtgaa agaattggaga ggtatagaga 420
 cgggggctat 430

<210> 16752
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-E9

<400> 16752

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cgggctggac tacctgggga accccaacct ggtgcacgca cagagcatcc tggccatctg 180
ggcgtgccat gtggtgctca tgggcttcgt cgagggctac cgcgtcggcg gcggcccgt 240
cggggaaggg ctgcacaagg tgtaccccg cggcgcttc gaccgctgg gcctcgccga 300
cgacccggac accgccgccg agctcaaggt gaaggagctc aagaacggcc gccttgcc 358
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<210> 16753
 <211> 482
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-015-Q1-E1-F1

<400> 16753

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gcatgaaagc aggctactcg cacaaaaccg cttcaccttt cggggacatg ctggcttttc 180
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atggtttaac agaaacactg ggacctagca ctgtctgcta catcgacgac atggccctgg 360
tcggaagcgc tgggtgtgctt gccacctaca ccgaaattcg gctggaagaa gtgcccgaga 420
tgggttataa tccactcggc gttccttcgc gtgggtgaaat ctgcatccgg ggaaaatccc 480
tc 482
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<210> 16754
 <211> 405
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F10

<400> 16754

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gactgcgtgc tgatgcgggc gtcggactcg gacaagcagc cgtatgtggc ggggtggagaa 180
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ggaatccaag ggcggtcgcc ggcagttcca cggcgccaag gagcttttcc tttccgatca 300
tttcgacctc cagagcgcgc acaccatcga ggggaaatgt gttgtccact ctttcaagaa 360
ctacaccaag cttgataatg tcgggcctga ggactacttc tcccg 405

<210> 16755

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F11

<400> 16755

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gcctagctcg gccgtctcc aagtttcgcc cagcgcagtc gttccgccta tgctcggcgc 120
cgggtttctg cgcgcccgcc tctgtcctt cgcggcggca gcttgggtcca ggatgtcagt 180
attcctgtac gcggcctgga gttggtggac gacaggagag catgaactga tgaagtgatg 240
ggccggcgaa caaggaagcc caattgcaa tgggccgggtg ccgagttggt tcgttgaagg 300
gtgggccggc gcttaatagc tggttgt 327

<210> 16756

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F12

<400> 16756

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tcagcaaattg ttaccacacc agatataata aaacttatcc agtaacatat actgatctcc 120
 ttattatttc acatgaaatg gtggcaaaat aaaacgtatc caggatgagg atggagtcaa 180
 ttcaaaactg ctgctgttcc ctgcatgcat aactcatctc ccagcaccca tccggtaçaa 240
 ctactggcgg tatagacaca tcatgacaaa gctttcatga gaagatçttt gaccttccga 300
 ctaaagtgtg ctatttgaat ctgctcacat tgagatagtt ctatttgcag acaacaaaag 360
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<210> 16757

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F3

<400> 16757

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 taacaatgta aattgtatgt cctgtacgta ctttgggtatc gcgacatctc agtgtgcatc 180
 ttcaaggatc ataagttgaa tgttatcatt aaggtcagtt tgggttcagat 230

<210> 16758

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F4

<400> 16758

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 gccgtattca gtgaagattt cttccttgcc ctcaaattct agtcaaagtt cactgtttga 180
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gccacacaaaa tttggtctgt acagaggctg ggcacaccat caactgttgt tgtg 474

<210> 16759

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F5

<400> 16759

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gccgtacgcg tcgtctcctg ctgtttctcc ccatcccttt cctgcctcgg cttgcacctt 120

caaccttact taaagctctg acctcaaact gaaagggacc tgcgaagagt tttttttgcg 180

gcagtacaat ggaggtattt ggcaaatctg tgattgctga gccagcaat gtgattttct 240

tgtccgcgat ccttaacaca gaacggtcaa accctagtca caagtgtgac aagaggtgcc 300

agagcgagcg ctttttgggg aacatgtacc gttgcaaact gactgaaacc actcatatct 360

gtgacaaaaa ctgtaaccag aggattctat atgacaacca taactcgctc tgccgagtga 420

gtgggcagct tt 432

<210> 16760

<211> 213

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F6

<400> 16760

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gccgtacgca tcttatacctg ctgattctcc ccatcacttt gttggctctg cgtgcatcat 120

tcattgcttac ttacaactct gacctcaatg tcaaagggat gtgctaataa ttttttttgt 180

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F7

<400> 16761

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ttccatccaa atctaaactt cagcagtttc actgattcac ttagtacgta gtcagctaat 180
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gctgtatagt gttccaagtc gtggtaatct atcttcttca ttatgatagg agattagcca 360
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<210> 16762

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F8

<400> 16762

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tcgttcgcat cacctacgcg gttcgatcca actggcagga aggaacgtga tggccaagac 180
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tgacatcgac aagaaaaagt acctcgctcc tgcctgatctt acggttggac aattcgtgta 360
tgttggttagg aagagaatca agctcagtgc tgagaaagct atcttcatct ttgtgaagaa 420
cacccttcca ccaa 434

<210> 16763

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-F9

<400> 16763

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cgtagtgcgt agcggcagct aggctgctag ctcgatcggt atagctgcgt actagtgggtg 240
tcgcagcaga agcagtagcc agcttcagta gccgatccgg tggtaaaagc aacttttttt 300
ggacatggcg gcggaggag ccccggtgct ggtgaggcat gctggcggcg tggaggagct 360
gcggcagct 369

<210> 16764

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G10

<400> 16764

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tataaggtgt ctgagaaatc gccagttgga aaggttgtca ttgatgagat cacaaagttt 120
ataagtgaat catacccaaa taatgagtct ggaattatat actgcttttc aaggaaggaa 180
tgtgaacagg ttgcaaaaga actgcgcgaa aggggtatct cagcagatta ttatcatgca 240
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ttgggactgg ccgtcgccgt aaatcttcgc ctgcctcta catcttggac accttgcgtc 360
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<210> 16765

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G11

<400> 16765

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tataagtga tcatcacac ataatgagtc tggaattata tactgctttt caaagaagga 180
atgtgtatag gttgcacaag aactgcgcta aaggggtatt tcagcacatt aggagcatgc 240

agacatggag atcctgaatc ctgacaaaat tcataggcgg atcgacacac atcggatgtg 300
attgggactg gccgtctccg taaatcttcg cctcacctct atatcatgga caccttgcgt 360
catcgttcac accatatcac ta 382

<210> 16766

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G12

<400> 16766

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cgtcgggtgcg ggcgaggcat tcatgtatat gggccaactc gccgtcttcc tgcgcgagtg 180
cgccaagggg atgaatacca tgagcacggg ccggttcctc aacaactgca cgctcaggtt 240
cttcttcagc accctgctcg tcacaatctt gcacaacgtc tcggcccaca ccggacgtga 300
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<210> 16767

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G2

<400> 16767

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ggcccgatat acgatgttgc ggcaatattg acctctattc agtccctgct gtgtgaccca 180
aaccctaaatt ctctgctaa ctctgaagca gccagaatgt tcaccgagaa caagcgtgag 240
tacaaccgca cagttcgtga cgttgtggag catagctgga cagccgacta aaactttatc 300
cgcttcgcca ggcggtgtaa ataaagcatc tgtctttcct acttgccggg tctgttttac 360
cgttagaaat cctcagctat cgttgtgttc ttgtggttca gtcccttgat gtactgatgc 420
ctgcggggtt tcc 433

<210> 16768

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G3

<400> 16768

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ggcgggtgaac gattcgtcgc tcaaggggta cccgcacccc tccatcagct gtcgcaccgc 120

cttcgactgg acgctctcta agctcgtccg ctccaaccct gggggcttcc acttcctctt 180

cgtccacgtt caggtccccg acgaggacgg atttgatgac atggatagca tctatgcttc 240

gccggaggac tttcaccaaa tgaagcagat agacaagata agagggcttc atttgctcga 300

gtactttgta aaccaatgcc atcagttagg gataaaatgc gacgcatgga tcagacatgg 360

agatccaaag gaggttatct gcagcgaagt gaagagagtc cagcctgacc ttctagttgt 420

ggga 424

<210> 16769

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G5

<400> 16769

cccacgcgtc cgcccacgcg tccgattcca tgcattctga tctgtatgta ctccgcccg 60

cgatggatga tgcattccatc tctacttggt ttctcacat gtacaacaat taatgcaaca 120

aattaagtac gtacttgag 139

<210> 16770

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-G6

<400> 16770

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 catggtgatg agcctgttgg aagagagggt cttatgcac ttgcaaattg gctgtgtgat 180
 aactatctga aagattcact ggcaactctc attgttgaga acatgcacct tcatatactt 240
 ccgacgatga accctgatgg gtttgctctt agatggcgtg gtaatgcaaa caatattgat 300
 ctcaacaggg attttctga ccaattcttc cccgttaaca acgatattga ctacagacag 360
 cctgaaacta gagccattat gaattgggta aagcaagaac acttcacggc ttctgctanc 420
 ttgcatgggg ggg 433

<210> 16771
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-G8
 <400> 16771

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 gtctgtgtgc atgaagacgc cgtctcacgg gttcaacggg taacacaggg cattttgggc 180
 actcaaaaca tccacgggcc tgatggtgag attgacgagt acggtagatt tggggggagg 240
 ggaaggggga ggaggaggag agcaaatgtg cagggaaagt ctgggtggcg agaactccgc 300
 agcgaatcga agcatcgga ggatgaatgg gacctgtcga tgggctacag acacagattc 360
 gccatgacag cattcagtct agtgggtattg tattgccaga caagtacatg cattg 415

<210> 16772
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-015-Q1-E1-G9
 <400> 16772

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 ctatggtgcg cgtcactctc tgggtccagct tcggtgtgac cctggccgtg ggcgcgctgc 180

tcattgtgctt ctcgatgctg gccactgtgg ggctgggctg ggcgatgggtg gtgttctcca 240
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 tcgagcgcgc ggtgcagccg gtggataagt tccacggttt gaatggcccc gcgtacctga 360
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<210> 16773

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H1

<400> 16773

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 aagcttacag ctttggagct ctcgactttg tagagggtga catcgaacta gcggaagata 180
 tgccgctgag agaggcgcac gccatcgggtg aatcgtgca ggagagaatc gacaagttgc 240
 ctcaagtcga gcggggcggtt gttcatatcg atttcgagag caccgataag cctgagcaca 300
 aagtcaggga caaactgccg tctactgac cctgacagat ttccgaatgc tcatgcatgt 360
 agtacattgt taagagatag tagctaatac cccggcggtt tcttcgaagg ttacgagcaa 420
 cgattccctt ca 432

<210> 16774

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H10

<400> 16774

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 cctgccaggc attggctgct gcagcagcag catcgtcttg gcacgagcga ggggtgcagca 180
 gtgtctggca gcggcgctgc actcacaggc gcccctcctg caggccaatg gcggcagggc 240
 gggcctcccc tctctctctt cgatccttaa ggctggcaat gcgatcagct tcagccggcg 300

gagaaggaga gacctgcgcg tcgtcgcgga ggcggccacg gcggggacgg ccaatgtcac 360
 gccggcctcg tctggcggcg tcagcctcag cgacgtgct 399

<210> 16775
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H11

<400> 16775

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 ctgtggtagg gaacaaggac aagggtgcat ggattttctt caaaggtctt gtttagatac 120
 tctagfatgc atcacaatcc acaggtcttg tttagatact ctagtatgca tcacaatcca 180
 catatgttga ggtgcattgg aatgtaaaat taaattaatt tatactccaa tccatatcaa 240
 tacatatgga tttgggtgga tactagagta cccaaacaaa gcataaatgg ggcgggttacg 300
 aggagacatt cctagcagga atttcccttt ttcattctga attaccctaa gatgggtaag 360
 agtttg 366

<210> 16776
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H12

<400> 16776

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 ctcaggccca tggtcgtcca tcattaagga acttggttat aacatggaac aagatgctac 180
 aaaaggaact ggatcacaca ccgactgtaa aaaccgatgc cgcgcgcgca ttcttggtct 240
 ctctcgagga tccaaagctc acaagcttgg gggaaactga gaaaaagcct cccatcgaaa 300
 tacttccctc tgggatgcct cccctatctg cacctccgat cgtgattaaa aaggctggag 360
 caaaacctgg tctccctaata gc 382

<210> 16777
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H2

<400> 16777

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 aggtcagaaa ggtgctggag gctcccgagg aggtcaagtg cgtgcccattg aagaatgtgc 180
 tccagcccgg tgacatcccc acgcttgctg agctcgggct cactgcgcca ccagccatgt 240
 cacaggactc aaaacctgct gttggctcta ctctcattgg tggtagagaca gaagctctgg 300
 agaggttgaa gaagtttgct gcagaatgct ctatgcagcc aaacaaagta gacaaaagca 360
 atacccaaga tagcatatat ggtgctaatt tctcttgcaa aatttctcca tggcttgcta 420
 caggttgccct ctctccacgg gtca 444

<210> 16778
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H3

<400> 16778

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 tggcctcttc cgcggaagcg tggctctggc tcttcgtcg acctgtcgtg cgtctctgta 180
 tctaattttg gatgctcgcc gacgccgcta gatagctgtt tggatgccgt gccgtgagaa 240
 atggcgatcg tttttgtgcc ctcttgctcg agcagatgct tgtccttggt ataaaaaaaa 300
 accctgcgag gtgttatata ggccagtgtg gggttctatc tttttctcca ataaatatgt 360
 agccctttat aataactaat gaataaaaga taacgcaaga aaaag 405

<210> 16779
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4

<400> 16779

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ggctgagact gaggacgcgc ccgaagaatt tcagtcagct cacaagatg aggacttgtc 120
gaagatcagg atgcagctcg ttcagattga gaatcagcaa gccagtttgc ttaatcttct 180
ccagaaattc atggggagct ccagaaatgg gatacgttcc ttggagacaa gggatgaacgg 240
gctggagatg gtgttgacg agatatcccg tgatttggtc gcttcctcgg gaacgattcc 300
gaacagcgag cctgacacaa acgcttgctg cattctgagc ccaaagttct ggataacgca 360
tgacagacgt acgtacactt ccaggtaccc tatatcggac gcagcatact actccgaaga 420
gagc 424

<210> 16780

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H5

<400> 16780

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cacgcagtcc tgcattggacc ccaacgtcat ggaggccaag gtcgtggtca gctcctgcgg 120
ccacgacggg cccttcggcg ccaccggcgt caagaggctc caggacatcg gcatgatcag 180
cgccgtgccg gggatgaagg cgctcgacat gaacaccgcc gaggacgaga tcgtgcgctt 240
cacgcgcgag gtcgttcccg gcatgatcgt caccggaatg gaggtcgccg agattgacgg 300
cgcccccagg atggggccga cgtttggcgc catgatgate tccggccaga aggcggcgca 360
cctggcgctc aaggccctgg gcaggcccaa cgccgtggac gggaccatgt cgccgccgtt 420
gcgcgaggag ttgat 435

<210> 16781

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H8

<400> 16781

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agagatcggg aaagcgggaa gcaaggacta tggcgtctct gtcagcctg tactgcgggc 120
acgccgccgg cggtcggatg acgatgagcc gaggtcggcg cacagcgctt gcgccagtga 180
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gcgctcatttc gtcgtcagct ccggcggcca ctgctcgtgc gtacctgcga ctccagtatg 360
attctgcttc ttctgtgt 378

<210> 16782

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H9

<400> 16782

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aaaaatgaga gagtatctag ctaagagcgt cgccggcgat gctctgctcc ggacgcatgc 180
tggcctgcaa cggggtcttg cccagtcggc tccagctgcc gaggggagac gcctaacacc 240
tgcgtccatc agcgtcgcgc cggaagtggc gcgtcgtggc ctccgctgcg gagtccagcg 300
ggccccct 308

<210> 16783

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A1

<400> 16783

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gcgtaccacc acatgtacga ccgccccctg gagcgcgccg tcaagagcga gacgtcgggc 180

aacttcggtt tcggcctcct caccgtgctc cgctgcgccg acagcccagc caggtacttc 240
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 gtggtggtca ccagggcgga gatcgacatg cagtacatca aggcggagta ccacagcatg 360
 tacaagcgct cgctcgccga cgccatccac gccgagacgt ccggcaacta ccgcaccttc 420
 ctctctccc tcgt 434

<210> 16784
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A10
 <400> 16784

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 agcggcttga ggctctggaa cttttcaaga aaaaagaagt agattttttg attgcaactg 180
 atgtcgctgc tcgtgggatt gatattgttg gtgttcagac tgtaataaat ttcgcatgcc 240
 caagagatgt gaaaacttat cttcatcgtg ttggccgcac tgcgcgggca ggaagagaag 300
 gctatgccgt gacatttgta accgatgatg atagatgcct cttgaaagca attgcaaaga 360
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<210> 16785
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A11
 <400> 16785

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 aaggcttttg aagaggagaa actccaagca gaggccagaa agagggaaga ggaagaagaa 180
 gctctaagac aactgaggaa gaacttggtc gtccgagcaa aacctatgcc aagcttctac 240
 caagagggac cccacacaaa ggttgaactt aagaaggtgc ctccaactcg tgccaagtca 300

ccaaaattga cacggagaaa gagctgcagt gaaaccctc atacaccaga gggaggaaat 360
ggcagtgcag tatg 374

<210> 16786
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A12

<400> 16786

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gcaggtgctt acaattcccc tggaaacgga ctggcaggtg cttatggcgt gctttctgct 120
catgccgcac agccaatggt gtatgctcca ggtgcttctc caggttcaac aatgatccca 180
atggtcctac cagacggccg tcttgtatac gtaccacaga ctgcagggca gcagcctctg 240
catgtgactt cgcctctgcc tcagcaaggc ggtcgtcgat tcggcggcgg tggcggatcc 300
agctccggcg gaaagcgaca gaggggagat gaccgtggca gtaacagcaa cagtagccgc 360
aggggctggc accg 374

<210> 16787
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A2

<400> 16787

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atcttcgtga cttctgttgc tcattctatg tttctgtcat ctaaccatca ggaggtctgg 180
aggatcacaa gtgccttgga gaaccacaag tatgaaattg ctgactggga ccttggtgcc 240
ggaatataca tagacttcta cgttctgaag aactcaatgc aagaaagaaa tgccatggat 300
gattcgggtt cactcgagga gatgagtga tcatgcagaa gtttctttgg ccgattaaac 360
gagtcgttgt tagtctgggg aagcaaatta cctgttgagt caagggcatg ctactcgaag 420
atggtagagg a 431

<210> 16788
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A3
 <400> 16788

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 ggaagatgga ctcaagtgtc cgaaggctgg aagagaattt atgggatcaa aacatgatcg 180
 gaccttgga ctaaaaactc caaccaagaa aacggaaacc aaatacacia cggggctcat 240
 gaactggacg agcaaaagca catgccatag atgctgtatt actgacatac tgctctactc 300
 gccttgcaaa actacggcct ttatcctgcg tctctcgtcg gcttagagcc atttgaagag 360
 aatgccacca tgggcagcga agaagggggc gaagacaagg gattcaaccg ccataagctt 420
 gatgaggatg ttgaagg 437

<210> 16789
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A4
 <400> 16789

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<210> 16790
 <211> 431

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A6
 <400> 16790

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 tctattccta ccaacaagag aagcagagca ccagcagaag gttcatgtta gaaatgagga 180
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 ccgcactagg ctttacttca catcggaatc tcatatacac tcattgatga atgtccttcg 360
 ttactgcaat ttggacgaaa gtctacaagg agaggaaagc cttgtctgcc agagtgtttt 420
 ggaccgtcta c 431

<210> 16791
 <211> 198
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A7
 <400> 16791

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 cgaaacaatt ggcaaggtag tcagtgtgtt ccgaatcgat catggcaaag aacaatgctc 120
 cggaacgacc agcgtgccgg caccaataac gagcggcacc agcacgagca ggaccatgac 180
 gatgtgctgc aggagcac 198

<210> 16792
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-A8
 <400> 16792

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gagaccttga agaaaaaaaa tagctggaac agaataaacg ctcatggaaa gtttttagagc 180
 gtccttttctt ctttggaag agatctattc gatcggagaa ccaatgcaac tacttgagta 240
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<210> 16793

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A9

<400> 16793

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 cccgcgagg aggagccgc gacagagaag gtggagaagg ctccggcggg gaagaagccc 180
 aaggccgaga agcgctctcc ggcgggcaag tccaaggagg gcggcgagg caagaagggg 240
 aaaaagaagg cgaagaagtc cgtggagacc tacaagatct acatcttcaa ggtgctgaag 300
 caggtgcacc ccgacatcg catctctcc aaggccatgt ccatcatgaa ctcttcatc 360
 aacgacatct tcgagaagct cgcggccgag tccgccaagc tggcgcgcta caac 414

<210> 16794

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B1

<400> 16794

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 cacctggagc tgctcaatac tatactggct cagccaaag tggtagtagt ataggcgatc 180
 aaggaatggt ttcacctac caagcaggt ctgttctgt tggactttat gcagtacaga 240
 gggagaattt atttcagag agacctgacc aacctgaatg tcagttctat atgaagaccg 300
 gagactgtaa gtttggtgct gtatgcaagt tccatcatcc caggagcga ataattccta 360

ctcccaattg tgcactgagt ccattaggcc tacctttgcg cccgggagag ccaatatgca 420
gtttctacaa tcgct 435

<210> 16795

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B11

<400> 16795

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aagagtcgat ggatatgagg ctgatgatgt ggtggctacc ttaacagaac aggttttaca 360
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<210> 16796

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B12

<400> 16796

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<210> 16797
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<212> DNA
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<223> Clone ID: LIB83-016-Q1-E1-B2

<400> 16797

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ttaaaaacta tgcccccgga gaatgaggag aattctatcc gacttattac acgttctgat 360
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<223> Clone ID: LIB83-016-Q1-E1-B3

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<212> DNA
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ccctacaagt ccttcgagga gctatgggac ggcgagatat gatatgagta aacgttacgt   180
cggcgccccg ctaggcggct gccttgctg acggagcaac gagctccccg ttgtgacagt   240
gagcggctgc ttttgtggtt ttatgccgtg ccatctgtgc aacaaaaagt gatgctttag   300
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gacgagcatt acgtgtggga atcgcacgcg ggccgggtcct tcaactgttac tcgtgacacg   360
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<210> 16801
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 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-B7
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<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B8

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<210> 16803

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B9

<400> 16803

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<211> 407
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<210> 16805
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-C11
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<223> Clone ID: LIB83-016-Q1-E1-C12

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 gccaaaggatga agagcaagat gctttatgca agctcaaacc aaaaattcaa gtgggctcaa 360
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<223> Clone ID: LIB83-016-Q1-E1-C2

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 gcctcaaaac ttggaattct ctgggcttgg tcagtccaca cagccttcag ggaccaaccc 240
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<210> 16808
 <211> 435

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB83-016-Q1-E1-C3
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 agggaagcgg agtaccaggc cggattgtgg tcttccatgtc caccacccga agaggcctcg 180
 tctccctaag acgacgatcc cctcggtttc gcgctctacgc ggcgaaatgcg gagacgggtga 240
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<210> 16810
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C5

<400> 16810

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<210> 16811

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C6

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<210> 16812

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C7

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<210> 16813

<211> 185

<212> DNA

<213> Zea mays.

<223> Clone ID: LIB83-016-Q1-E1-C8

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<210> 16814

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C9

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<210> 16815

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D10

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<210> 16816

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<210> 16818

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D2

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<210> 16819

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D4

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<210> 16820

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D5

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<210> 16821

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D6

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421

<210> 16822

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<212> DNA

<213> Zea mays

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<400> 16822

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<210> 16823

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D8

<400> 16823

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ggtcaacgcg aacccgagct cgtgctcctc gccgtccagg aggctgccga ggaagggcgt 180
gagctcgatg tcgtaggtgg gcatgttgaa ggagccgatg ctggtgatgg ggcgccagat 240
gagcggggtg atgcgcgcgg tgtagatcac cgggaacggc cacacggcgc ccaccacgtc 300
gccgtcgagc aggacggtga cctcgcggaa cggcgcggtc tgctcgggcg tgttcatgta 360
ccagaactcg tcagcgtcgt gggaccagac ttatacctcg aggaccgcgc gggacgcgtt 420
gcgcgg 426

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<210> 16824
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D9

<400> 16824

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tgacctggga ggagaagggg acctgttcaa agctccagaa gccatcatcg aggaaccgct 120
gctcagcctc gatcctgtcg cagctgcctt ttcaatgatg gctggcaatg gaagtgtgtg 180
catggatcaa actattaagg acgcaggcac cggcaccatc caaaatgacc cctcctgag 240
tgaggtgctg tacgagtgcg agaaggaact catggagaag tccacaatcg aagagacaat 300
ttctgaactt atggatgtta agattcctat gctgcaagtt gaagaaatcc caagccaagc 360
tgaacaggtt cttatacaga accagcagct cccg 394
```

<210> 16825
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E10

<400> 16825

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gcagtgcaaa tacggccgaa tctatttcat atgataatat atgagagaga attacaacgc 60
atggaaaaag aaatccattc agacaagata gatgcaacca ctcaattgtt tttttttcct 120
ttccattgct tgatggcacc tgcacccatg ttttcttccc agcatacagc atcacatacc 180
aagcaggctg ggatcttcag gccagaaga tgccatgggc catggcacac ctctgctag 240
ctgacttctg tcattgggag tggtcaccgt cagcctcttc ttccgaagaa cgctgcgaac 300
cagcagacgc ctctgccgat ggcaacatag ggtcatcacc ttctctgctg tctggtgctg 360
tggcctcagc atcaccactg ccactgcttg ctgcctccg ggg 403
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<210> 16826
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E11

<400> 16826

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attaatttgc aattatacag gttagtgcag tttcttttga tccgtgttgg tcccaaccaa 120
attcagatga aactgaagaa aatgtcatgt atcgctttgg gtcagttgga caggataccc 180
aactgcttct ctgggatctg gcattggacg agattgctgt cctctacgc catccttccg 240
gtgggtcacc gacattcagt agtgaagcc cttctgcaca ctgggataat gcatgccctc 300
caaccggtgt tctccaacct tctccacgga tgcgagatgt gccgaagctc tcacctctcg 360
ttgcacaccg ggtacatgta aatccccaac cgg 393

<210> 16827

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E12

<400> 16827

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ataacaattc atttgcttat gtcgccgtta agaaatctat ccataggtat ctcataaagg 120
attctaacta tcttacgaca gcggtaaata aattcgcgaa ttatgttaac ctttccagtt 180
cagagaaaga cttgttagaa gaaccaacat gtccaaaggc tcttggtgat attgttgaat 240
cttgtgttgg tgctgtgctt ttagattctg gcttcaacct gaacctggtt tggaagctaa 300
tgctaattgt tcttaaacca atattgagct tttgtggcat gcacatcgat cctatgagag 360
aactccgaga aacttgtcaa tataatgggt ttgac 395

<210> 16828

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E2

<400> 16828

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gcacgcctcg cctcgccacc ctctgggtgc tcctggcggc ggcgtcaccg ctgctgagcg 120

cagctcaaaa ggccgccccg aatgctccgg cggcggcgaa ggccggcgcca gggccggcgg 180
 cgtcgtcgtc gtccggagcg ggcggggggg acgcagtccc tctcacatat gtgaacaagg 240
 cgctcaagga ttaccagttc agcgagttca agcagctgct gcacgacacg cgcgtggaca 300
 cgcagatcaa cgcgcagctg acggacacct acaaagggct gaccatcatg gagcccagca 360
 aagccgcctt ccacaacatg 380

<210> 16829

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E3

<400> 16829

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 cttggttcat catgctattg ctctaggttt gcatacaact acattgattt tagtaaaggg 120
 tgcttttagat gcacgcgggt ccaaattaat gccggataaa aaggatttcg ggtatagttt 180
 tccttgcgac ggcccagggc gcggcggtac ttgtgatatt tctgcttggg acgcgtttta 240
 tttggcagtt ttctggatgt taaataccat tggatgggtt actttttatt ggcattggaa 300
 acacattaca ttatggcagg gcaacgtttc acaatttaat gaatcctcca cttatttgat 360
 gggatgggta agagattacc tatgggttaa ctcttcacaa cttattaatg gatataatcc 420
 t 421

<210> 16830

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E4

<400> 16830

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 gagctggctg cactcttttt tectttctag ggtttctcac aagggtgagt ttacctaga 180
 aaggttttta atgaggcagc attgcacaaa acagctcatt tattatattt gtctatattt 240

tctactgttt ttttaactttg gtt

263

<210> 16831

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-016-Q1-E1-E5

<400> 16831

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atgccagaga agttcttgaa tatatgacca gagaaggaat ggtgcctact gcagatgcct 120
acactggcct gggtgaggcc cttggccacg cagctatgta tgaggaagcc tatgttgctt 180
tcaacatgat gactgaaatc ggtagcttgc caactcttga gacctacaat gctcttgcatt 240
ttgcatatgc taggggtggg ctcttccagg aggetgagge catcttttct cggatgagta 300
acaatgctgg cattcagaaa agcaaagact catttgacgc cctcatcgaa gcatattgcc 360
agggctcccg attggatgat gcagtgaagg cgtacatgga gatgcgtana tccaggttta 420
atccagat 428

<210> 16832

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E6

<400> 16832

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taggggggaga agtgctacaa cttgaccctt tgagactaaa ctttgtgttt gagtatactt 120
gatgtagtct caaaggtgca ttgaaagggg aaggtgaact tggaccatgc aaagacttcc 180
actgcactcc gatattagtg tactcacctc caagttcata cttatgctct cattgccttt 240
ttgctcttaa ttgacatttt ggtaacgcaa tgggggttaa gggccaaaaa tgatcctgtt 300
ttggtgctta atgccaaagg gggagaaatt aaggccaaag caaatggatc aactaccact 360
tgtgaatttt gaaaacaaaa gagttagaac ttttgatttg tccaaaatac tcttattgca 420

aaatttggt

429

<210> 16833

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E8

<400> 16833

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accttctctc cgcgccccgc cagcctcaag cccctgcggg cacgcgcaa gcccgccggc 120
ctccagctcc aactcctccc ctccccgcgc ctcgggctcg cctgcgccac cgtcgccggg 180
gaggcgccgc ccgttgagca gcgggacgag gtggagccgg cctccgccgc gggatcgaac 240
gggactgccg ttaatgtcga ggcgtccgcc gcgaagcac agtcccagcg cgcgccccgc 300
ctggtcccgg acttccgcga 320

<210> 16834

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E9

<400> 16834

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ccggcgccgg cacacctcac catctgtctc tcgcccgcag cgtggcgggc tgccgccggc 120
gtgcgcgcgg tgccgggacta cgactccatc ccgaagcggg agcccttcag ctccagccgc 180
agcatcctcc acgagttcct caggcaggac aagcccctca tccagcgcac caaggaccag 240
atcacagatt attgcacggc catcgacggc gatgagtgtt gcagctgttg ggacgcttac 300
tttgcaactgg ataaacttga gcaggagcct gccaaaggtag aattcgcaag gctgggtcaag 360
gac 363

<210> 16835

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F1

<400> 16835

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acctgttcga cgacagcaag cgcgggatgc ccaaggacgg gtggacgttc gagctgccgt 120
tcgggggtgga cgtcttcctc gtccctgtct ccttcacgct catcaccacc atcatgttcg 180
gcaccgcctt cctcgtgtgg aagctcggcg ctatacactt caacgagtac tagcctttag 240
actgtctcta cttgattggg ggataaaggg cgattatgca gtgattcttg cagtgtctaga 300
cgagagaact gtgtgcattc gtaatgtact gtattgacca cagacactgg tctgccggag 360
attttcgaga gaacgtagaa atgtgtgatt gcgcgaaaca ggtgtcctgt tatgtagaat 420
taataaatat 430

<210> 16836

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F10

<400> 16836

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tgcgggggcca tggtgctctg tgacatggct catatcactg gtctcgttgc tgcgcaggag 120
gctttgaatc cttttgaatt ctctgatgtg gttaccacta cgaccacaaa aagtcttcga 180
gggccaaggt ctggtatgat tttctacagg aaggggccat agcctccaaa aaaaggccag 240
cctgaggggtg ctctgtatga ctacaggagc aagatcaact ttgctgtgtt cccgtcactc 300
cagggggggc ctcacaatca ccaaattgct gctctagctg tagccttgaa acaggctatg 360
tcacctggat tcagcgcta tatcc 385

<210> 16837

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F11

<400> 16837

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agcgccgcgc tgggtgaccac catcgttgcc cgcgcgcgga tcgccaggcc caatgctcta 120
gggctgcctg cgctgagggc gaggagcgag aggggtgcggg gcagctacgc caaggacgcg 180
gccccagtca gcaccaaggg cccaggcgcg tcgctgctcg ccgcagcggg cgcggtgatc 240
gcgtcggcgg ggcccgcgct* ggctctcggt gctgatecca tgtccacggg gggcaccggg 300
ctgagcctcg ggctcagcaa caaccttgct ggggtggctc ctctggggc gtcttcgggc 360
t 361

<210> 16838
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-F12
<400> 16838

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cggcgctgga agaggccctc aagcccttcc aggaaagagc ctccgaggct gagatacgca 120
tagcgaagct ggaagccttg ctgtacaaca aagatgggtc gagcgggtgga tccgaggcaa 180
cttctctctgc cgtgaaggat ctccagtcga agctagatgt ggttactgca gaatgcttga 240
ctgaaaagga gaagaacaag aagctgacca tggagaacga gaagctccag taccgcatga 300
cccatctgat ccgtgcgata aaagaggcgg aatcgagata agaacagccc ggcgaggccg 360
atttcaaagc ctgatgtcca agtggt 386

<210> 16839
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-016-Q1-E1-F2
<400> 16839

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cctgctggac agtcatactc ggaagaaatc cgtccagggt gtgcgtgtgt tgctgtgcca 120
agagtactct tgcgagaaga tgtaacagaa ccgaaaactg gcatcaagtt cccactcta 180

cttaaagaca attccaatct gactacagag gtacactgcc cccagttgac acatgcatct 240
gatgggttaa ttggcaggtc cttggttgaa tgggtttcag aagcatgcga ataagtaggg 300
ttaaagatct gaatctttat gcctttggat tatatatata acctgattct gtttgcaaaa 360
agctgggtcc aaagtatgct tgtattccag atgctgagtt gaatgatcac ccagatttct 420
atgaag 426

<210> 16840

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F3

<400> 16840

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accaatcatg gacgggtgtc actccaacgt cgtcggggtc aagcccgccg cggcagtgcc 120
gcaagccgcc gccgcatcat ctctggcaaa accggtgaat gtggtcacgt tccgacaggt 180
cgacgtaccg atcagtcag tctgacggc gtcgtacacg tcccgacatc acagattcag 240
ctaattggcac aattttcaag tccttactcg aaaggattac agacacatac gagcattgcg 300
agattaagat gctg 314

<210> 16841

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F4

<400> 16841

caaactcgtc cgcaacgact catcgatcga gagcagcaca cactgcacgc agctagctag 60
gatcatcaac agcggcgggc atggcggact ccatgatctc ctcgatcatc ctggctgtgg 120
cgctcacgg cctgacgccc ctctgccgcc gcgcctcctc cttegacgtc gtccgctcca 180
agaagatgat cactcagcgc tagaccctac gggattgtgg gtggacttac cgtctacatc 240
tactcgatca gtataaaggc ccatggc 267

<210> 16842

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-F6

 <400> 16842

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 gcctcttacg aggaaatcaa gaaagctatt aaggctgctt ctgagggccc actcaagggt 120
 attatgggct acgtggagga ggatctgggt tccaccgact tcaccggtga cagcacgtcc 180
 agcatcttcg acgccaaggc cgggattgcc ctgaacgacc acttcatcaa gtcgtctct 240
 tggtagcaca acgactgggg ttacagcaac cgcgtcgtcg acctgatctg ccacatgttc 300
 aggacccagt agagagagat atttctgcct ccctatcgag ggtcgtcccc gatggccttt 360
 ggttccaaac catctttgct gcttgt 386

<210> 16843
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-F7

 <400> 16843

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 ctctataaga aacgcagaca tgaataaaaa aggaactggt cgagtagtat ccacaaatat 120
 taccgaaaac attgttaaaa tacttctacg acagggtttt attgaaagtg ttcggaaaca 180
 tcacgaaagt aacagatatt tcttggtttt aactttgcga catcatagga gaaagactag 240
 aaagggaata tatacaacta gaacctttt aaagcgtatc agccgacctg gcttacgaat 300
 ttatgccaac tatcactgaa ttcctaaggt tttgggcgga atgggaattg ctattctttc 360
 tatctctcca ggta 374

<210> 16844
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-016-Q1-E1-F8

<400> 16844

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aaacccggag aaatcgcaaa gaaacttgag tggtagcaaa aatttactaa tgttgatgat 120
gttataccaa taagtgctaa atttgggtcat ggagtggatg atatcaagga gtggatattg 180
tcaaagctcc ctctgggtcc tgcttactac cccaaggata tagctagcga acaccctgag 240
agattttttg ttggtgaaat agtgagggaa aagatttttg ttcagtacag gcaggaaatt 300
ccttattcat gccagggtta tgttggtcagt tacaaaagtc ggcttgctgc caaggacttc 360
attcaagttg agatacttgt ggagaaagaa tcacaaagag gcattatact aaggaaggat 420
ggcaaaagca t 431

<210> 16845

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-F9

<400> 16845

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ccttcagcct cttcgacaag gacggggatg gttgcatcac gaccaaggag ctgggcactg 120
tcatgcgctc gctggggcaa aatcctacag aggctgagct ccaggacatg atcaacgagg 180
tcgatgctga tggcaacggc accatcgatt tcccagagtt tctcaacctt atggctcgca 240
agatgaagga caccgactct gaggaagagc tcaaggaggc cttccgtgtg tttgacaagg 300
accagaacgg cttcatctcg gccgccgagc tccgccatgt catgacaaat cttggtgaga 360
agctaactga tgaggaag 378

<210> 16846

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G1

<400> 16846

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 cgttttcgac aaccgtgtgg atgcactacg gaccttgagg gagctgaaac tccttcgcca 180
 tctccggcat gagaatgtca ttgctttgaa ggatataatg atgccaatac acaggagaag 240
 ctttaaggat gtgtacttgg tatacgaact catggatact gatttgcacc agataatcaa 300
 atcacctcag ggcctttcca atgaccactg ccagtatttt ctttttcagt tgctccgagg 360
 actcaaatat ctccattcag cagaaatact ccacagagac ctaaagactg gaaacctgct 420
 ggtgaatgca a 431

<210> 16847

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G10

<400> 16847

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 agagatcgcc agctctaccg gcgcggaggc atggcggggg ccggagacaa ggtggactac 120
 gtcttcaagg tgggtgctgat cggagactcg gcggtgggca agtcgcagat cctcgcccgc 180
 ttgcgccgca acgagttcag cctcgactcc aaggccacca tcggcgctga gttccagacc 240
 cgcacctcgc tcatcgacca caggagcgtc aaggcccaga tctgggacac cgccggccag 300
 gagaggtaca gagccgtgac tagtgcttat tatagaggcg cactgggagc tttgctggtc 360
 tacgacatca ccagacggca gagcttcgat cacatacccc gct 403

<210> 16848

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G11

<400> 16848

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 actcatgtcg cccaccgccg cagctccctc gtggcgggcc gcggccccgg gcgccacctc 120
 gctccccctt gacccggaggc gcagctttgc cttcggctcc atcaacggtc tcgggcggga 180

ccagctcacc tctaggacta cgacgcgaag cagtgtggtc agggcctcct gttccccctc 240
ggagtctctg ccaccgtcct catcaatggc gccgctcagg tatggatcgc ccgcggggca 300
gctaggctcc cagattcgtc acacgcaccc gcacctagtg catggcgccg cttaccagca 360
gatcgaactg ctccagag 378

<210> 16849

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G12

<400> 16849

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tcctcagctc tccgccgaag gcaatggagc tatcaggaac agaattggcca ttctcttgat 120
tcttcagctt tttctcttga cgttcttttg ttccataact gattcagcgc taggcgtgga 180
tggagcggcg tcgttcatct tcaccaacgc ctgcaagtca cgcggtgtgg gtgggcgcgc 240
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<210> 16850

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G3

<400> 16850

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cgataaagtg gccgtcgtcc aggattggac ctgaactcct tgagtacctt gaatcaatat 180
cagatgaaag gatcgaggaa atgattggtc atgggcgtga gatgagatgc ttgtgggtgt 240
atgcagctga tactgagccg tgctctgcc tgagcggat cctgacggag ctgcagaaga 300
aagtgcgtcg gttccatcaa tcggcggaac cattctggct gcacaacaga acaattgtga 360
atagagatct gattgagttc cacagctgga ggacgcctgt tccgttgcca tgaacctgt 420
attctgattt c 431

<210> 16851
 <211> 400
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G4.

<400> 16851

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cgtacgccaa cgtctccaat ctcgtagact ttctgtgtca tcatcatcga cggcttcccc 180
aagagcgctc gctgtggagg ccctaacatt ccggcgggat gccatccgc aagcgggagc 240
caagcggcgg taggatgagg cgcgactcag cggacgcagt atccgtatgt gactggtaat 300
tcattcattg ccttgaaata caacgatggg gtgatcatgg catgtgacac tggagcctcg 360
tatggatcaa ccttgagata caacaatgtg taacgcatta 400
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<210> 16852
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G5

<400> 16852

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ctttggctga ggcttttctg gctaagggcc tgaaatttat tactgtattg attagtattg 180
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ggcatactcc tgtacagtct cagatttggg tcggttgtgt tgcagcagtc atggcaggcc 360
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ttgta 425
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<210> 16853
 <211> 428
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G6

<400> 16853

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ccgttgatag gccaggttgt ggggctaaaa ttctccgagg ggatggtgca ttggaccagt 180
acataacaag aaccaatgtg atgaatttac aggaaactaa cgatgggttg gccggggagc 240
tcgaggaagc gtacatgctg tctagaattg ttagcttgta atttgaaagg ctggggagga 300
agcgtatatg ctgagttctg accaacttcg tacatcgtgt aacatgtcta cccaacaca 360
ggccggctac tttttgctca caaaatcacc tgtactctgt ctccattcct gttaagctct 420
aacgagca 428

<210> 16854

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G7

<400> 16854

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atggaaatga ttgactcgtt gtttaagcca cgggaaactg atgacgatgg tctgattcgg 180
gaatgtctga ttgacttcta caccagttca gggaagagaa agcctgacca agtcatcatc 240
ttcagggacg gtgttagtga aagtcagttt aatcaggtgc tgaacattga gttgcaacaa 300
atcattgagg cttgcaaatt tcttgatgag aaatggaatc ccaagttcac attgattatt 360
gcccagaaga atcaccacac taaatttttc attcctggaa agccagataa tgttccagcc 420
ggcactgttg t 431

<210> 16855

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G8

<400> 16855

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attggaagct atcaggaaga gaaggatgga agaactaatg gcaaaacacg gtggcgggtg 120
ggcaaatcaa caaaatgcaa gccaaacaaa agctcaggaa gacgcgaaac aggaagctga 180
ggaacgccga cagatgatgc ttgctcagat attatcttct gaagccagag aaaggatctc 240
ccgcatagcc ttgggtcaaac ctgacaaagc aagaggggtg gaggatgttc tgctgagagc 300
tgctcaaact ggtggaatat ctgaaaaggt gtccgaagaa agacttatct cccttctaga 360
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<210> 16856

<211> 135

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G9

<400> 16856

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cttccgcgta agacgacacc cagtatcagc tgggaaggta gtccgttgat tgtgctagct 120
gctagtgatg accct 135

<210> 16857

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H1

<400> 16857

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aaggaacttg taactactacc tataaactgg tcagactgag acggttagca tggattttta 120
gtagtggtgc tgtattttgt tgtttcatat aagtactcta ttctgtt 167

<210> 16858

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H10

<400> 16858

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gcagaccagc aagcaatggt ggggagctac agcttgcacc accaggcaat ggaggcgaaa 120
gctgtaggcg gcgtcacctc cccgagtttc tccgctggtt tgccgagctc gccggtggcg 180
gactacgtgg gaaacgatgc ttctggctac catacaaaca actattaatt aatgatggat 240
gatgagccgc tgccgaaaat atagtgatcc aataggtggt gttaggctat tcacacttac 300
tgtacagttt taaaacaatg tcacatcaaa ttttgtttat ggaaccgtgt aactgagtt 360
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<210> 16859

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H11

<400> 16859

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tgaggcaatt gatgatggcc gcattggccc acgtgatgat cctaaggtgc gctcccagat 120
cctctctcaa gagtttgggt gggacaagga tcttgccaag aagatttgggt gcttcggacc 180
tgagaccacc ggcccaaaca tggttgttga tatgtgcaag ggagtgcagt atctcaatga 240
aatcaaggat tctgtttgtg ctggtttcca gtgggcatcg aaggagggtg cactggctga 300
agagaacatg cgcgggattt gcttcgaggt ctgtgatgtc gttcttcatg ccgatgctat 360
ccacaggggt ggtggccagg tcattccaac tgccaagagg gtcatt 406

<210> 16860

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H12

<400> 16860

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 accagtttgc tcattcctcc gaccactggt cttgtcatta acctggtcgg aatgggtggca 180
 ggaatttctt atgccattaa cagtggctac caatcctggg gtccgctctt tggaaagctg 240
 ttcttctcga tctgggtgat cctccatctc tacccttcc tcaatggtct catgggaagg 300
 cagaaccgca caccaacaat cgtcattgtc tgggtccatcc ttcgtgcac cagctttctc 360
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<210> 16861

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H2

<400> 16861

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 ataaaaaac gatttggaat ctaccttttc atttgtttta tcccttataa aaataactca 180
 atcaaaatcc aattatctac tctacaagaa tgaaatgctt gttatgccta atatacttag 240
 tttaacctgt atctgtttta attctgttct ttgtccgact agctttttct tcgccaaatt 300
 accogaagct tatgccattt tcaaccaat cgtggatggt atgcctgtca gacctgtaaa 360
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<210> 16862

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H3

<400> 16862

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 tttacgagga cgagaaggta ctggctttca gggacatcaa cctcaagct ccaacacaca 180

ttctcatcat ccccaaagtc aaggatggac taactggcct ggcaaaggct gaagagaggc 240
 acatagagat acttggctat ctctctatg ttgccaaggt tgttgcaag caggaaggac 300
 ttgaagatgg ctatcggtt gtcacatg acggccaag tggatgtcaa tctgtttacc 360
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 ttgtg 425

<210> 16863

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H6

<400> 16863

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 cggattgtgg tctccatgtc caccacccga agaggcctcg tctccctaag acgacgatcc 180
 cctcggtttc gcgtctacgc ggcgaaggcg gagacggtga gcaaagtgat ggacatcgtg 240
 aagcagcagc tggcgctggc ggcggacgtg gggctgacgg cggagaccaa gttcacggac 300
 ctcggcgcg actcgctgga cacggtggag atcgatcatga cgctggagga ggagttcaag 360
 atcacgctcg aggaggacaa tgcccagagc atcgccacca tccaggacgc cgccgacctc 420
 atccacaagc t 431

<210> 16864

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H8

<400> 16864

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 agatcgatac tattcatgtt gtggaaaaac gtgacacaca tgacaatgtc cgggacgttc 120
 ctaagggttaa cccactggca cctttagcaa cgattaatcc agaagagctt cactccaaaa 180
 ttctcccat cttoctggg cgaccgcaa tcatggcatg tcaacgacat ggctcatgtg 240

gcgagccagt ttccggggac actgagcgcc accagctact cgatcacaga gtagaacata 300
cctgccctga 310

<210> 16865
<211> 358
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H9

<400> 16865

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taaaggcaag catccgtttg gtgagtacta tgaaagggat gtgaacattg caaacaatcg 120
ctttgatctc tttatggtgg actacatacc agaagcagtc catcttatat ctcatTTgtt 180
acaaccaaac ccagaggcaa gaccgacagc agtatatgtc atgcaccatc cactcttttg 240
gagccctgaa ttgcgtcttt cgtttctaag ggataccagt gacagaattg agaaaaccag 300
tgaaactgac ctcatgaaca cactggaaag catacgatct ttggcgtttg gtggaaaa 358

<210> 16866
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-001-H6-F1A

<400> 16866

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ctctcaccta ctatacctgg tagttaaacac tgccgcacat ctacaagctt accaggacac 180
gtactttatgg gaataaacgg taaaaacgat cctccactcc tgacttaaaa acgacgtcat 240
tcaggccgga cgactacgtc atcagctcta aaccctaaat gtcaacaaca tgtg 294

<210> 16867
<211> 466
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-002-A11-F1A

<400> 16867

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aggaacagcg acgcattggt .cgcaggatct ggccacgctc ttcggcaggg acgcccagat 180
tgacgggacg tgatcgccgt tgcttgacca aaccagcttc aacaacggag caggcggggg 240
atgcgctatc tgccggtgcc gtgaggaaag ggatggcagc gccaaagtct tcacgaggcg 300
acttcgcaga cgtctccgcy gcacagaggg cacacctgt gtatttcttt cagccatttg 360
tcaacacatt gcaggtggaa ctcgtgcttg caaggaagaa ttcgtatctg gtctccatcc 420
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<210> 16868

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-H6-F2A

<400> 16868

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atggactgct atcagtgaca cattggccaa gcatgggcat gcgttacgct agtagttcgg 120
acactgaatt cattaatgag tgactgtagc ttaagttaat gcgtgattga gctatgtgga 180
agctatgcgc cggagagacc tgtggtcacc aagtt 215

<210> 16869

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-H6-R1A

<400> 16869

gtcactacga taagttcgcc gcacgtcact accgtctcca gatcagtacc tggatatcta 60
tctaggtgag tctatcggtg gggtcgtaga gccttcgtcc ttctcgccac gcgtagcacc 120
tg 122

<210> 16870

<211> 390
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-H6-R2A

 <400> 16870

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 accgcttgcg tggtgactgc cgatggcact acgaaagacc aaccatgtgc cctccgtgac 180
 gcggagacgc ttctatagac tcagcatggt tgccatagccg ctgccatattg ctttatctca 240
 cagccccgtg tgagagcgca tctagacgag attgcgtgta cgcagcctca tcatgcagtc 300
 aatagtcagt ctctactgc tatcgtggca gagtcacttc atagcatcgc cagatcctgc 360
 agccaacaca ctgctgatcg tgccattagc 390

<210> 16871
 <211> 399
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-B2

 <400> 16871

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 ctgatgtctt gacgacacat atggcacaac ggatgaggtg tacgctgctg ataagatcta 120
 cacgcttcct tgctgacca tgcaaacctg aggagcacia ctgttcgtcc tgctgggcgt 180
 tttcctagtc taggtggcct accctagatt tgtgaatata atgtcttgac cctccaaatt 240
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 tttttgtgtg ctttgcgcat atctctgtcc atcatgtaga gcacatgggt tactgcacat 360
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<210> 16872
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-E8

<400> 16872

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acgcgggaac tggtcgcgct cgagatctta gctccgcac ctgaaaccat tggctccatt 180
gctattgctg tcgtggttca ggtgatgaaa tcttggggag cccgcctcgc tcggtcctaa 240
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cctcctcggg cgcgccggcc ggagcttctt cttgggcaac acgtggtttc tcctctccac 360
ctaccggcg cgctcctcgc acaccacggg acgcgcgcgc cccgcgcgtt tccttggcgc 420
gatcaaccgg cccctt 436

<210> 16873

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-F2

<400> 16873

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acagaagggg gttgcacttc accccccaac aatttctaac tcctacaccg actaaattac 180
tagccatttg ttaacgggga acattcacta ngcctatcag ctgtcagggtt gttaataaat 240
acgtgagctg agctactaca acaaacaagg cccaccgaca caagcagctg gagatttgcc 300
ccgagctgcg gccataact cggaaaacta gaagctgtca gtaatggta aatttccttc 360
tgtgcgggct gtaatccgat acgtatctga atgtc 395

<210> 16874

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F8.F1

<400> 16874

accagaccaa agctcagtct agtttatagg cagccggtag aaacacttga cgatgagtta 60

gccacagcca cagccacagc catagccagc catctgatga gttcatgagt aaaactaaag 120
tcatacagag gccactagtt gacctttttc atctcagaaa ctaaaattca aggtcgtcgt 180
cgcgatcgtc tctcacgtca cacatacaac tagtatcatc gtcacgtca tcatatacta 240
aggcccaaac caagaaccac gcagttagct catcgtgcgt gtaccttagc accattgcc 300
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<210> 16875

<211> 539

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-001-Q1-E1-F8.F2

<400> 16875

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caaaactaaag taatacagag ggcccttggt gacctttttc ctctcaaaaa ctaaaattca 180
agggcgggcg ggcgagcgtt tattacgtca cacatacaac tagcttcatc ttgatgggtg 240
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gtgaccaact gttgctgtca cgggaggttg aggaagatgc atgcgngtc caggtggggc 480
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<210> 16876

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-F8.R1

<400> 16876

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ggcgcacctt ctgttgcac ccgtaggacaa aggacgcgga ggccgtcgcg ctccg 175

<210> 16877

<211> 608

<212> DNA

<213> Zea mays

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<400> 16877

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tttctgag 608

<210> 16878

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-001-Q1-E1-G1

<400> 16878

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gagtgaatgg tgaataccgc atacctgtat ttcaggaatc atatttgatt aaatggtgaa 180
tgcaactgcat accggattca aggaaaaacc aaaaacacaa aa 222

<210> 16879

<211> 281
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-001-Q1-E1-H4

 <400> 16879

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 cctcggcccc ccggacagcg ggcgcggaag aagatgaggg tcccggagat ccagcagatg 180
 gtgcgggtcg tgtcggtgga gaacgacgcc ctccgcaagg agatgagage gttgcggagg 240
 gattgcacgg cgctgttcca agagaacggc aagctagaga c 281

<210> 16880
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-002-A11-F2A

 <400> 16880

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 caggaacagc gacgcattgg tcgcaggatc tggccacgct cttcggcagg gacgcccaga 180
 ttgacgggac gtgatcgccg ttgcctgacc aaaccagctt taacaacgta gcaggctgtt 240
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 gactttgcag acgtgtccta ggcacatagg gcacactcct gtgtatttct ttcagccatt 360
 tgттаacaca tt 372

<210> 16881
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB83-002-A11-R1A

 <400> 16881

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acctgcaatg tgttgacaaa tggctgaaag aaatacacag ggtgtgccct ctgtgccgcg 180
gagacgtctg cgaagtcgcc tcgtgaagac cttggcgctg ccatcccttt cctcacggca 240
ccggcagata gcgcaccccc cgctgtctcc gttgttgaag ctggtttggt caggcaacgg 300
cgatcacgtc ccgtcaatct gggcgctcct gccgaagagc gtggccagat cctgcgacca 360
atgcgtcgct gttcctgccca tcaacttttt aagataccga gactgtatat agctcttgta 420
gcctctccgt gtatgacaac ctgtacatat atatgtaaat tctagattcc aatgtccatt 480
atcttgcct acattc 496

<210> 16882

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-A11-R2A

<400> 16882

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acctgcaatg tgttgacaaa tggctgaaag aaatacacag ggtgtgccct ctgtgccgcg 180
gagacgtctg cgaagtcgcc tcgtgaagac cttggcgctg ccatcccttt cctcacggca 240
ccggcagata gcgcaccccc cgctgtctcc gttgttgaag ctggtttggt caggcaacgg 300
cgatcacgtc ccgtcaatct gggcgctcct gccgaagagc gtggccagat cctgcgacca 360
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<210> 16883

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-002-Q1-E1-F4

<400> 16883

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tagtccctgc tgctaaccac ccttggtgct ggtgctgctg gagaggcatt gtacctgtcc 120
atgcatatat gatatatatg ttgtaacggt gtgaaagcaa acaatcttgg gtaccaatgt 180
ttgttaaaaa aaaaaaaaga atcaacaaga ctaaaataaa gacaactaaa taaaaacaga 240
ataaccacga agcagataca catcataaaa 270

<210> 16884

<211> 537

<212> DNA

<213> Zea mays

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<400> 16884

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agataggggt tgatcacttt gtacacaata ttgggggggc ggaatccaac catggcttgc 180
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tgtaaatacga aaatgcatta attaaccatt tgtattttta agacttattt ccagcttatt 300
aatattattag aataatttga tgaagttaga atgtgagcgc tatagctgcc tagattatcc 360
gatatctgat aatgccatgt tgagctcctt gaccttgga cgcagaccc tgcgctgctc 420
ctccccctcc ttgatcatga tgaacttttg cagagccttc actctgaact tctttactac 480
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<210> 16885

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D12

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ccatcgagaa gaacgaaggg ggcttcgtca aaccgggata accgtgtaac tgctacgttc 180
gttcgttagt tcggttccaa cttccaaagg aatcggtccc tagccggatt gttgatcagc 240

tggaacgatt tctgaataga ttccttcgta accgaacatg cccctaacag gcgcatcatc 300
cagaaaccgg gaaagatgaa gctaattgtga tgcttttgatt gtggaggtgg cctatcttct 360
tcctgttggt tccaaacata cgaatttcgc aatgcatttt gtatgatgcg attc 414

<210> 16886

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-D5

<400> 16886

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gatgggtttc atcatggact tcgcggagaa tctgatcctc cgtctgatgg aggaccggga 120
caagcgcgac caggttcggc gggagcatgt ctacaagatg aaggagcggg gcgagcgac 180
taaggcggcg tggagcctcc ctctgcgcc ctacggcttc tggaccttcg accgcttcaa 240
ctcgcagctc tcctgggatc cccagatcag ccaggccgcc ggccgtcggg acccctacga 300
cgacctcatc gcacgccact ctggctcgcc gccgtcctcc tgaacaccgt tccgatcttt 360
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<210> 16887

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-G11

<400> 16887

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cgccgcgcc tcatcgccgg cgaagcgggt gcagctggcc gcgcccaggg gccgccgcgc 180
cgctctgctc ggcttggcgg ccgtcttcgc cgtcacggcc accaccgggt cggccaaggc 240
cacgatcttc gatgagtacc tcgagaagag caaggccaac aaggagctga acgacaagaa 300
gaggctggcc accagtggcg ccaactttgc gcgcgcctac accgtggagt tcggcagctg 360
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catcagcg

428

<210> 16888

<211> 54

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-003-Q1-E1-H9

<400> 16888

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54

<210> 16889

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-E9

<400> 16889

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ctgaagtcag caattttaca tcccagagctg aattccagag cataacctac tggaatcacg 120

atacagcgcc atcagcagag gattccctcc cgagggtgctt ccattggctt accgtcgcta 180

atgcgatgca tagagcagtg actgctgaag acctgactaa catggcagca atgcagaatc 240

aggacaagta gattcgttct ataacgaagc catgcaatct cgatttggtg aaccatctcg 300

acaaaggatc ttgtaacaac caacatgtta tttgaacgca tccagtaggt aatgtttagg 360

ctttggggta agatgcttca ggagatcctt gttcagtagc atctgaaaat gt 412

<210> 16890

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E1-F9

<400> 16890

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tgagagatgc aagaagggtg gagatgtggc atcaaagcta acaatggatg aggctacttt 120

ccgtgagatc caggagaaga agttggaaat ttataacgcc atagttaagc tgcaaaaagg 180

ggatgatagc gatgagaagt ttcaggagcg ggctaataag atacagtcag atcttgagga 240
gcttgtgaaa tcattgaatg agcaatgcaa gagatatggg ttgagagcta agccaactac 300
tttagtggag cttccttttg gttggcaacc tggaattcaa gagacagctt atgcatggga 360
tgaagaatgg gataattttg gagat 385

<210> 16891
<211> 599
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A4.F2

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tacgagcgga acaacgggag aatatacatt aaggtaacag ctccttcccg aacagcccag 180
caatcgctcg gccagggtct tcttgcgtca gcagggactc tcttaccaaa accgcgaaaa 240
caccagcttt ttgcacatat gccacgtcat cgggagtgaa cagcccagac tcgctcacia 300
cctgtattcg cttctcgta atgatgtcgc cacgcttctc taacaacatg tttgtgtttg 360
cagtgtcgac ttcgaatgtc ccaagactgc ggttgttgat gccgatgagc tccacaccgt 420
ctatcttgag gacgcgatcc aactccctct catcatgaac ctgcacaaga gctgccatcc 480
caaggctctt gcagacgcgg aggaagtagg tgatgtcgat gtccggcagc acggccgcga 540
tcaggaggac cgcgtccgag cctttcgagc gcgcgtagta gatctgccag gcgtcgatg 599

<210> 16892
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-A4.R1

<400> 16892
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gtggaggtgg cccagcgcaa ggccagaga 89

<210> 16893
 <211> 668
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-004-Q1-E2-A4.R2

<400> 16893

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tcgcgccgcc gccaggac ttctcgccgc cgctgcgcgc cgctgccgc cgcaacgccg 180
tccccgcgct cgtcgccgag gtcaagaagg cgtcgcccag caagggcctc ctcagggacc 240
acttcgaccc ggtggagatt gctcgacac aacagaagaa cggcgccggc tgcctgagca 300
tcctgaccga cgagaagcac ttccaggga gctttgagaa cctagaggcc gtacgcagct 360
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acgcgcgctc gaaaggcgcg gacgcgggtc tctgatcgc ggccgtgctg ccggacatcg 480
acatcaccta cttcctccgc gtctgcaaga gccttgggat ggcagctctt gtcgaggttc 540
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acaaccgcag tcttgggaca ttccaagtcg aactgcana cacaacatg ttgttagaga 660
agcgtggc 668
  
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<210> 16894
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-C8

<400> 16894

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tcggccttcc caacgccagt tcccccttg aaatccacag gaatttaccg tacggcgagc 180
atttcaaagg tcatttgtcc cgagtttgaa tggtttctta gatcaaccaa ggtctgttat 240
tacatttacc ccctgagatt aataatctaa tcaactgtct cttaatctc gtcgtcgtct 300
  
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tcttcgtatt attcctcttc aacctcgtcc tectctcca ccacctcatc tgactccaac 360
gacggtggag a 371

<210> 16895

<211> 145

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-D7

<400> 16895

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cggtagag atgaccacgg ttatctcag cgcctctcgg ccttcattg tcagcttct 120
catgccgatg ggggataacc tcgtg 145

<210> 16896

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-E9

<400> 16896

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atacagcgcc atcagcagag gattccctcc cgaggtgctt ccattggctt accgtcgcta 180
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ctttggggta agatgcttca ggagatcctt gttcagtagc atctgaaaat gtctgggtaa 420
ttt 423

<210> 16897

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F3

<400> 16897

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gcccgcctcc tcgatccgct tccccgcgg cgccgacggc ggcgccagca gagcgggct 180
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aatggagctg gactacagcg acgccctcat tgggtggcggc ttcttgttcc agaatcgaaa 300
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<210> 16898

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-F7

<400> 16898

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cagattcgat tcgacatgaa tcccagtag gactacctt tcaaacttct gcttattggt 180
gattctggtg ttgggaaatc atgcttgctt ctccagattg cggatgatcc atatttggac 240
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accataaaac ttcaaatttg ggatactgct gggcaagagc gtttcaggac catcactagc 360
agctactacc gtggagctca tggaatcatt gtaagttggc cacctgaact agcaactttt 420
gaaacttgct aac 433

<210> 16899

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-004-Q1-E2-G8

<400> 16899

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tgttttctaga tgcaagagtg cttattgttt gtggtgtttg ttattggaaa ttttggttgg 180
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 ttttgacctc taattatttg ttagtaatgt aattttctca aaaaataata aaaaaagaaa 360
 aacaacaaca gtaataaata gaaaaacgtg ccacacagga tgggtaaaaa 410

<210> 16900

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-005-Q1-E1-A5

<400> 16900

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 atctgttttg tttgtttgcc tctcaactta ttttaagttgg attactgttt gtttcctttc 360
 aaaattatac aatccaactt atanaa 386

<210> 16901

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-B6

<400> 16901

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gaagaagccc gagatcatgg cctccatcaa ctccttcttc gccgaccctc ccaaggacga 360
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<210> 16902

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E5

<400> 16902

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cagcaagcat cccattgccg cttcacacat ctttgtgtgc ttcgatcgga cgcgtgggca 180
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gctggtgttg ctatgtactc ttacattaag gctaagattg aagaggagaa aaggaaaaag 300
agcgcgatgac tgctgtgaat aatattatcg agaccttct cggacacaac atcgtcgaca 360
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<210> 16903

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-005-Q1-E1-E6

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ttgagttggt acatagcgga caaaaggag actatgaaac ctctgtctag ttttgtctct 180
gtaaaattgta catgtgcggt gtttgtatca gttgtctgaa acatttctgc agtttactgg 240
taataacaga aattgaatct cagcatctaa aaaataataa aaaagataat gaaata 296

<210> 16904

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB83-005-Q1-E1-H8

<400> 16904

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tcgtgctggt tggcggcctc ggcaagcaag ataggcctgg ggtcatcaag ggaatcggca 120
tctgggagct ccgtcgcaag gagtggcacg aggtcgcccg gatgccccac aggtacttcc 180
aagggttcgg cgagttcgac gacgttttcg caagctgcgg ggcgcgtgat cttatctaca 240
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tcgagcccca gctggacatt gctctctagt tt 392

<210> 16905
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B1

<400> 16905

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tctgaaacaa aggcacttcc aagctctaga gttaatgggg gaacgtgatg aagagttgga 240
ggagctaaga aatgatattg ttgacctaaa agagatgtac agggagcaag tggatcttct 300
tgttagccag ctccaggcat tgggtgctcg tgtatagtgc cggtatggat ttgtcgtgcc 360
atcgggcaag gcaagac 377

<210> 16906
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-B4

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ctgctctagg cctgattcta tttggagctt gttgtggcag agatttcacg tcagtttaca 240
aaggctagtg atgctagaag gtgttctctg caaaaaaaaa gaagaaaaaa aaaacaaaaa 300
tgtaaaaagg aaaaacaatg tcaagaaa 328

<210> 16907

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-006-Q1-E1-C8

<400> 16907

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gtttgacgag gtgcgcacct gcggttccag cgctggcgcg cagctgcgcg gcgcggtctg 180
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aggacgttca gctgtggggg gtgttccagt atctggttgt tgcttcccgg tctcaatgga 360
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<210> 16908

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G3

<400> 16908

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ccgcccattg taccactgtt gtggcgggca cctttggata cctagcacca gagtacttgc 120
aaaatgggca tgctactgag aaatcagatg tgtatagctt tggagtgtt ttgctggagc 180
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gctggctgaa caccctgacg ggggagcacc ggctggagga tatcgtcgac gagcgatgcg 300
gcgacgtcga ggtggaagcc gtggaagcca tcttggacat cgcagcgatg tgcaccgacg 360
cagacccggc gcagcggccg tccatgagcg ctgtcctcaa gatgctggag gaagagatcc 420
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<210> 16909

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-G9

<400> 16909

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tcaggaggat gtctgggtcg tccggctccg gcgtgtgggt gttcaagaac ggcgtgatgc 180
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ccatcccgcg cgacttcgca agcctccgct ccacccacat gtacgacgtc gtcgtcaaga 420

<210> 16910

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H12

<400> 16910

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gccgtcacgg ccaccatcgg gtcggccaag gccacgatct tcgatgagta cctcgagaag 240
agcaaggcca acaaggagct gaacgacaag aagaggctgg ccaccagtgg cgccaacttt 300
gcgcgcgcct acaccgtgga gttcggcagc tgccagttcc cctacaactt cactggggtg 360

caggacctcg ccaagcagaa gaaagtcctt tcacacgga acgact

406

<210> 16911

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-006-Q1-E1-H2

<400> 16911

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aacaggcgcc agagtgggat ccagcagttg ctggctgctg agcaggaggc tcagcaaatt 180
gtgaatgccg ctagagctgc caagtcagcg aggtcagggc aagcaaaaga ggaggctgag 240
cgggaaatag ccgaataccg tgcccagatg gaggtgaat ttcagaggaa ggttgacgag 300
agcagcggcg actctggtgc aaacgtcaag cgtctggagg aagaaacggc ggcaagatc 360
gagcaactca cccagcaggc cgcaagcatc tcccagatg tcattcagat gcttctgctg 420
catgtcacca ccgt 434

<210> 16912

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-A5-F2A

<400> 16912

aaatacggat taaaccgggc ctagtcatca tatactctaa tgaccagaac tgctgtcacc 60
agacaaccca gaaacattct ctttgtccca aaataaatca atttctcaga gttatcttaa 120
atcaaactat ttttaagttt gaccaaattc ataaaaagag catggcactg aattagtgtc 180
actaatgcac cataaaatat ttttcataat gtactcatct gggggcatag agacatagac 240
gatggtgcct ttctataaaa attggtcaaa cttaagataa tttgacttta agtgattcta 300
gaaattgact tattttgaga cggagcatat tactataaga aagaaaagca taagcagtat 360
aactacttca cggttcagct tcaacgatca tggactcggg atttggatct c 411

<210> 16913
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB83-007-Q1-E1-A5-R2A

<400> 16913

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taaaccatgg cgtcctccgc gttcctcaac gctctcgtcc tccgatcgcc atcacccgtcg 120
ctctcgtcct cgtctaaccg ccgcagcacc ggcgcccttcg cgttcccga cccaccgcgc 180
ttcccatgcc tgcgttctgc gcgtcgactc gtccttgcca gggcgggcggc agcgccggcg 240
ccggggcgatg gccccgagga cgagtggggg ccggagcccg agggcggttc cgctgtcacg 300
ggggccgcgg tggcggaggc gccggaggcg aaagaggctg cggagctcaa ggcgagcta 360
aaggacgcgc tgtacggcac ggagcggggc ctgcgggcgt ncagcgagtc acg 413
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<210> 16914
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E10

<400> 16914

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agattgtttg tacaagagag ctagctattg gcatgcacca ttctcctgta tggggactgt 60
tgtatacttg catatgaata cacaagaatg taatgccaca ttcaactttc tgctctttgt 120
ttgcgttata tgtgccttcg tcttgatgg ctttcactcc catagtccca tgtgatgcac 180
aacaatgtac cgagtttgac tgattcatga gttcattgta cttgaatttc cagattatgc 240
tgcgtttgaa gcagacagaa ggagcatttt tttttcactg cgagtttcct atattccatc 300
tcttctgctc ttgataagca gacacttggt atttgtaatg caattttttc cagtgttgct 360
tgggact 367
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<210> 16915
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-E2

<400> 16915

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cagcgcgctcg cacatctgct gctcgtcgca cttcaagaga ttgatcgagg ttgcccgggt 120
cgcgccccgcc gccatggcga cttcctcagg accaaaggag gcgccagcga ataaccctgg 180
gctccagacc gaggtcgacc ccgccaccaa aggtacttct ttgcaacaaa cgatgttacg 240
tgtgaaggac ccaaaagtga gccttgactt ctactcaagt gtgatgggca tgtcgttgct 300
gaaaagggtg gatattgaag agatgaaatt cagtttgtat tttctagggt acgaggatgt 360
gaccttagcc cctgatga 378

<210> 16916

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-F8

<400> 16916

cggacgcgtg ggcggacgag tgggtgatct catgccaaga gcgattgcat tgcattggagg 60
tggtgatcct attgtgctga tttgcctcgc tcgtgtcacc aacttcaatg ttggttcctt 120
tatctgggtg tggtatttat gtttgattgg tgaccctgag cgtattttgg ctgttagagc 180
agcgttaaata tcaacgtagc aacgatgggt ggaatctgag atagtttggc cttgtgtaga 240
gtttgaatta aaagttgtta cttggctgat tgttccaaaa aataattgac aaacgccatg 300
gtcttcaaaa aaaaaaaaaa aaaaaataaa aa 332

<210> 16917

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-007-Q1-E1-H12

<400> 16917

tatgaatcag gcaaggcaat cccaaccag cagatcatta gcaagctcga gagggccctg 60
ggaaccaagt tgcgtggcaa gaaataactt tccaacaat ttgtgtcccc ggagcaatca 120

taataggggg aagacaaggc aagctgtctg cttatttgtc tatgtttggg atctcaagtc 180
ctgcggaactg tttctgttgg cacaagaagg aataaatgtg ttcaaggacc tg 232

<210> 16918

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A1

<400> 16918

tttttccaca ggggagccag ggctgtagcc ggacgtgcga gtcgtcgttc tgcatagtcc 60
cgccgctgct gaggtacggc aagtactgcy ggatcctgta cagcggctgc ccaggcgaga 120
agccctgcga cgcgctggac gcctgctgca tggctccacga ccaactgcgc gacaccacaca 180
acaatgacta cctcaacacg cgggtgcaacg agaacctgct gagctgcctc gacgggggtga 240
gcccggcgagg gccgacgttc ccggggaacg agtgcgacgt cggccagacg gcgtccgtca 300
tacgtggggg catcgagtcg gcgggtgctc cgggcaagat ccttcacaag cgcgacgacg 360
gccagtagcc ggcgtcctgg gctcctcctg gc 392

<210> 16919

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-008-Q1-E1-A3

<400> 16919

aaaaaaaaac aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 60
aaaaaaaaaa aaaaataaaa aagaataaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaac 120
aaaaaaaaaa aaaaaggggg gcccctcaaa aggttcaaat attcctttct cttgcatgca 180
acttcaaacc cctcccaaat tttcccaaaa tttcattcca cggggcggtt ttttacaact 240
ccgtcctggg aaaaccccg tcttttcaca ttttactccc cttggagaaa atcccccttt 300
ccccatttgg gttaatatga aaagggcccg caccatttcc ctttccaaaa atttcccacc 360
cttaaatggc aaatggaacc 380

<210> 16920

<211> 68
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-E7

 <400> 16920

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa 68

 <210> 16921
 <211> 57
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-F5

 <400> 16921

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 57

 <210> 16922
 <211> 102
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-G1

 <400> 16922

 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 102

 <210> 16923
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-008-Q1-E1-H7

 <400> 16923

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 gtggattctt gtcaatactt gataagcagc catacgggtg attgtagggt ctcatgtcct 120
 gacaacagtt cgttggatac ttctggtaaa gctcatgatg aagagagatt ggatcaggcc 180

ttaataacca agcatgacag tgggatgatg ctttctacta gtaaccagac atcattagat 240
gctactgtag gcactgagag cagtgctgaa tatatgaagc atgatgtaag ccattgcgat 300
gacttcaata tcagagtcaa tgaccaaagc ttgaaccagg cgtaagaaa tcagcatggt 360
gatgctgtcc cattacctga catggtatca ctgatgcta aggtggacaa 410

<210> 16924

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-Q09-Q1-E1-C5

<400> 16924

ttacaataca tcgtacgatg gaaggttcaa cgcatagttc acgcaattta tgatgtccac 60
gggatgttga gtgtcgtcgc agttggtttg gcaactgaga tgtctgtcca aggaaaggtc 120
tggaacaatg ttgtgtatgt ggataagctt gtgtagcagt tcagataact gccaatcgag 180
cagcatacaa tacctgacgt tggatttcag caacatcctt acgtgtatcg tcacaagggc 240
gcaattgtag ttcgatgatc tccacacata tactacaagg acttacagtt gatatctgac 300
agttcggagg cctcaagtat gtaagatctt gcaatgtgat att 343

<210> 16925

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-009-Q1-E1-D11

<400> 16925

accgtgggc ggacgcgtgg gacgcgccgt acgggcaggg ctctgcgcgg cacaaggcca 60
ccggccgatt ctccgacggc aagatcgtca ccgacatcac cgccgaaacg ctcggcttcg 120
agagctacgc gccgccgtac ctccagccgc aggcgtcggg gaagaacctg ctcaccggcg 180
ccaacttcgc ctccgcggcg tccagctact acgacgacac ggccggccatg tatgacgcga 240
tcacgctgac ccagcagctc aagtactaca aggagtacca gtcgaagctg gcggcggtgg 300
ccgggcgcgc tatgggccgc gccatccttg gcgacgcgct 340

<210> 16926

<211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-009-Q1-E1-E3

 <400> 16926

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 gtcaccttct ccacagagga ctcgatgctc atcgccatca tgggcatgaa ccgtaaggag 120
 catcgacggc cgcaccatca ccgttcacga ggcccattcc ctctgcggcc gtggaggagg 180
 ccgtggcgga tactgtgacg ggcgccgtga tggacgcgga tactgcgggtg gcggtggaag 240
 ctaccgcggt ggtcgtggac gctaccgagg ctgtggggga tacagtgggtg c 291

<210> 16927
 <211> 147
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-B3

 <400> 16927

 tctgcagaaa gatagatgcc taaggagggtg ctgaaaaatg tagtttcgtg gtcaaacatc 60
 cttgttgaca ccattttcca ccttgtgtta ttcacatgga acttttcttc aaacaaagtt 120
 ttgttaatca aaaggtacca aacatac 147

<210> 16928
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-010-Q1-E1-D10

 <400> 16928

 agttcaacac agtgaactac gccggcgtgt ccaccaacaa ctacgccttg gacgagggtc 60
 cagaggtgaa atgagtgggg ccggccggct caaaggctcc gcgctagcta ccgtgtgatt 120
 gatttgtagt agttgtgaaa tgaagctgtg aagctgcatg ctgtgctggc taacgtcaca 180
 acatcgatcc tatgtgtaat agcataatcc acataatcat atcatgtaat tgcgtgcttt 240
 aaaaaaaaaa aaccaaaaaa 259

<210> 16929

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-D8

<400> 16929

agggaaactt gtaatggtcc caaacttttg ttccatgttg atctgcagag ttcacatggc 60
tatgtttact tcacgtatct ttgccgaagt tgtttctggga ttgcttaaca tgctaataatc 120
cttcttctgt acgtgctgat ttataactcc tgtttctttc aactaggctc atgcttcttc 180
taatggcgac ctaataatag accatgctgg aacttttaca agacataaaa ataaaaaca 239

<210> 16930

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-010-Q1-E1-E9

<400> 16930

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ttgtagtgat ggcggcggac acagagcctc tcgagatcct gctccacctc cccttgtag 120
ctgaggataa gaacgtgcca tatgtgtttg ttccatcgaa gcaagctctt ggccgtgctt 180
gtggtgtgac aagaccggtt attgcttgct cagtgaccag taatgagggg agccagctga 240
aactacagat acaggggtctc aaggactcca ttgagaagct tctcatctga tctgccgaag 300
acctttcagt gtgatgggcc tcatcgacac ttttttcaga ggcttggact ggtgatggtg 360
tcntgtttac tttgcgcttt tcaaactata 390

<210> 16931

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-010-Q1-E1-F5

<400> 16931

aaaaaagcaa cttatgctga tgagaggttg gtgacgattc ttggctactg gctactgtaa 60

ttagcttgag ctactattct ggttgacga tctgtggctg aacacgagta ccatactga 120
 gtgtcataag tcatgttgcg aagaacatga gtagcatatt tcaggtgccg tttggttcat 180
 atatttgtaa tgtaatgggt aacggataac gttagagggg aagggtccgc gat 233

<210> 16932

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-A2

<400> 16932

tgttaatcca ctctgtcatt cttctagagc aaaaagacct agacaaaacg ttcctccacc 60
 ttcacttgaa tcatctgttc tcacaaaaga aggtgcaacc aaggctgaaa tcgattcagc 120
 tcaaacacaa caccaaaatt cggctcttga aggtcaggag cagatgacct tgaggaacaa 180
 cctgactgaa agcgctgatt ctgattccac tgttcagaag ccgatgatgt ggtccccatc 240
 actcaatggg aaagcccaca ctcattttca gcagagacct gctatggata attggatgcc 300
 attgggaagg cgtgaaaatg acttcaagga caccggttct gccttcaagg atgccgcac 360
 cgctctcaa tc 372

<210> 16933

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C1

<400> 16933

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 catgtgagga aaacaagtag agatggatgc atcatccatc gacgggcgga gtacatacat 120
 gtacaacaat taatgcacca aattaagtac gtacttgaaa aaaaaaaaaa aatataaaaa 180
 aagaa 185

<210> 16934

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-C12

<400> 16934

tcctccgcgg caggtaggcc aaatcccagc gaagcccggc catggcgatc gccgtcgccg 60
tggtggcagg aacgcagctc tcagcgacaa cgctaccatt ttgtaactac tgcggtgtag 120
tatatatatg catgcattcg tacgtgatgc gagctgtggt ttcgggccga tgggagcgcg 180
tcctgtgact gtgactggag taaaaattta ccgagcttct ggagagtatc acattgtgta 240
tc 242

<210> 16935

<211> 352

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-011-Q1-E1-C3

<400> 16935

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gaaagctggc acgcgccatg ctgctcgcg 60
gctccgaagt gaaggccgc ctcttcgccg ccgacaacgg cctcgacgtc gccaccacc 180
gcctccacgg ctcgtagat gcgctcctcg acgaccggga catcgacgcc gtctacatgc 240
cgctccccac cagcctccac gtgcgctggg ctaccgcagc cgccgcacgt ggcaagcacg 300
tgctcctaga gaagcccacg gcgctgtgcg ccgccggact cgacnacatc ct 352

<210> 16936

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-D5

<400> 16936

taaggtggag ggcacaggt cgggattcgt gtgggactcc acgggccaca ttgtcacgaa 60
ttaccacgtg gttgcgaagt tagctggaga cggatctgca tctcatcgct gcaaggtggt 120
tttgagggt tctggtggca aaagttactc aaaggaagcg aggctaatag ggtgtgatcc 180

agcatatgat cttgcggttc tgaagataga tgctgacagg gaccagctga ggccctgctct 240
gattggcaca tcacggagtt tgcgagttgg gcaaagctgc tttgccattg ggaaccctta 300
tggatatgaa cacactctaa ctactgggggt tattagtggga ttggggaggg aaataccatc 360
tcccaatggg agagcgatcc gtggggctat ac 392

<210> 16937

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-E12

<400> 16937

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tcttgtccag ccatacgtat accggagatg aaaggagacg gaggcagtga agaaatatcc 120
ttttttttct tctcattttt cacgaggatg cgggtgactg ctcccagaat gctgtgtcca 180
atttaciaaac gcacaggtgg cacatgaact agcagagtag ctttatcttg aaaggaaact 240
gtatttgggg tcgatgaacc ctctggtgtt attcttcaga ctggtaaacg atgtaacatg 300
tttgataatc aataaagtgc gtcgtatggc tttcct 336

<210> 16938

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-G11

<400> 16938

tgcaggagga tccggtgaac caataccaac aattgtgtat gacgatgaag actacaagga 60
tgtttttgtg tcagaggctt gcttgctcac tcgcgacgag aacgagtggg acaggggaacc 120
aatctcggcc aatgccacgt ctggcaaaga aggtttgcaa gcctcggttg ctgactgatt 180
taagtcaggt tctgtatcag ttttgtgact attatacaga tacaggattt gatcaacgcc 240
tcgacatggg aggaaagaac actacggtat aggcggggat tgttcacaag acaatctggg 300
tctggaatgg accattttca gtatagcaac tattgatttg agcaacagtc agactaatgg 360
ttccaggaga aatttatccc 380

<210> 16939
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H6

<400> 16939

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tccatttctc accagaagcg aaggcggagg cggaggagcg gaggtaggag atctcgagca 60
aggcggaggc ggaggagatg aagacgttcg acccgtggcc ggtcttcttc cgccgggagt 120
ggaagcgcaa ctggcccttc ctcacgggtt tcgcacatcac cggattcatc atcacgaaga 180
tgacggccaa cttcaccgag gaggacctca agaactccaa gttegtccag gaacacaaga 240
agaagcactg acgaaccagg tgaaggagtt gtcagaaacg catgtttggc cagccagttc 300
tgttatgctt ttgaatgaaa aatttagacc cctctttctc gtttccttaa tcgaaatgct 360
tgaactctat gttccattt 379
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<210> 16940
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-011-Q1-E1-H7

<400> 16940

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ccagcctccc cgctcgccgc cgctcctcca gaagcctcgg caacgtcagc aacggcggaa 180
ggatccggtg catgcagggtg tggccggcct acggcaacaa gaagttcgag acgctgtcgt 240
acctgccgcc gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ctgcgcaacg 300
gctggatacc ctgcctcgag ttcagcaagg tcggcttcgt gtaccgcgag aactccacct 360
ccccgtgcta ctacg 375
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<210> 16941
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-A6

<400> 16941

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cactgtgggg ctagtgttcc aacatttgtc agcctgcttg cgcgaggaag gggggtcact 180
gactcaagag aagggcctgg tcataggctg ctgcattatg aatttctgat gatgtcttat 240
gtctgtactc tgaatcaact atgtatgaga tctcatctcc tttctcctac tgaatgaatg 300
aatcattatt ggctttgctt tgcttcaaaa aaaaaagaa 339

<210> 16942

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-B4

<400> 16942

tgcgattcaa tgttaaggaa gctcactggc ttggggagag aatcaaggaa cggatattac 60
aagcggagaa gaataggata aataaagatg gagagcttgt tatatcttct acaaaaacta 120
gaacacagaa gggcaatatt gaagatgcat tgcagaaaat acaggcaatc attgatgctg 180
catcatatgt tctccacccc ccaacagaag accaaaagaa aaagattgaa aaaattgctg 240
cagtcgctga aaggaagaga cttcagaata agaagtgctt ttacacagaag aaggaattta 300
gacggaacag aactagctgg gattgatgca agcttgttct cggggtagca aaagcattcg 360
gctgacctt acagcagtgg tgtacagaga ccgacgaaaa acaggggtca gacttgctg 419

<210> 16943

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-C3

<400> 16943

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cacggctgac cttcccgacg gctccagct ccatcttgat tcttgaggcg aagccccggt 120

gcgtaagagt ctgccatggc cagcgagaat aaggtctttg ggttcgagga agtcgccaag 180
 cacaacgtca ccaaggactg ctggatcatc atcgccggca aggtgtatga cgtcactccg 240
 tttatggatg agcatcctgg tggagacgag gttttgctag ctgtaactgg gaaagatgct 300
 acagctgatt tcgaagatat tggccacagt gattccgcaa gggacatgat ggagaagtac 360
 cacatcgggc agatagatgc gtcaacaatc ccagcaaagc gtgctcatgt gcacccccag 420
 c 421

<210> 16944
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-D11

<400> 16944

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 ccgcgctcct cgccccggc gaccacgagg tgtggcacga ctgcctcccc gtcctcgctg 180
 aggcggacgc ctgcttctcc gacctcgagg agcgccaggt cgtgcgcata cagggcacgg 240
 atagggcagg ccgaaccatc gtccgcgtcg tcggcaagtt tttcccggt ccagtaattg 300
 atggtgaacg tctgaagaag tatgtgttcc aaaaactgcg cacccaattt gccggtgggt 360
 cc 362

<210> 16945
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-012-Q1-E1-F1

<400> 16945

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 tgtaaaatag gtttgggatt ttaagcaggc agccaatagt ttcgacgtga atagtagtgg 120
 tgaagtagtg atttgcttta tgaaagacgt gttggcacct ta 162

<210> 16946

<211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F3

 <400> 16946

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 tgatactgtt actatgcctt cagactctga gaaggatcgg gattctgatt cagatggtga 120
 tgtttagaaa agagtttcaa acgctggaag agaagagtct gatcagaaga aactagaaat 180
 tgaactccgt gagaaggccc ttgaatctct tagagcaaag aaagccgtca acaactagac 240
 tgagaatttt tttgtgacac atttgagttt ctattttcaa gtggaagtgt ctttatatga 300
 tactatttaa tgttctgtgt gtttatgtgg cagttgatct gatgattcct gagctgttta 360
 cttgatgcag ctgaattcag gcttagcagc cagttatctg attagctcca tgtgcacaag 420
 cttttt 426

<210> 16947
 <211> 55
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-F4

 <400> 16947

 agcaaggata atgcaccaca cgtgcacgcc acacttgtag tccactctga cagtc 55

<210> 16948
 <211> 116
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB83-012-Q1-E1-H9

 <400> 16948

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 tcatgctagt gtcgatgtca ttagggaact gactcgcac gatggtcgta gacctg 116

<210> 16949
 <211> 95
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-A2

<400> 16949

aaaaaaaaata aaaaagaaaa catagacaaa cacaaaaaaaa acaaaaaaac aaagaccaa 60

taacaaaaaa caaaaaaaaa aaaaaaaaaa aaaaa 95

<210> 16950

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-B12

<400> 16950

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ccttctctct gtggctttct cttgcccttg ttgtcatcgg tgtttcaatg gcatccctta 120

ctgagctctc attcaactgg actggcttca tcaatgccat gatatcaaac atctcattca 180

cctacaggag catttattcc aagaaagcca tgactgacat ggatagcacc aacgtgtatg 240

cttacatttc aataattgct ctcatgtttt gcattccgcc tgcagtgatc tttgaagggc 300

cccggtaat gcagcatgga ttcagtgatg ccattgcaaa agtaggcttg acaaagttag 360

ttagtgacct attcttggtt ggactgttct accatctgta caaccagatt gctacg 416

<210> 16951

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-D11

<400> 16951

aaagacatct agaaacatag atgacactaa tgctaaattt tgtagctgaa gatcagacca 60

ctaaatattc ccacgaacac attactgtta ggttggggga tcattaaact cgagctaaga 120

cacaaatatg tagatgaaat tagtgctgct gttcatgcct tcgttgagat tagccattac 180

aggacacaag aatttagtaa gaggtttggt aaaccttttc cagtgcagga gcagctgcct 240

gatgagttgg tagagtgggt gctttcagtc aattctctag ggtgcctatc tctatttaac 300

ttgatgctgc acactggggg ctcccttcag tc

332

<210> 16952

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-E3

<400> 16952

cttcggcaac gtgatcttca cggcgacgcc gctggccaac gccggcacgg tgacggccgg 60

ggtggcagag ggcgcgtccg tgatccaggc cgcgttggac cggatggacg acgggtactg 120

ccggtcagcg ctggactacc tggagctgca gccggacctg tcggcgctgg tccgcggggc 180

gcacaçgttc cggtgcccca acctgggggt ca 212

<210> 16953

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-F11

<400> 16953

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aagaaaccgc gtggaggggg gggagggcga tgagatgagg gatgctggcc gccgtgatgg 120

actacttcag cacctgctgg ggcccgcggg ctctgtgcggg gcaccggggc aagggctccg 180

acgccgccgg ccggcatgac ggctctctct ggtacaagga ctccgggcat ctctgcaccg 240

gggggttctc catggccgtg gtgcaggcca accagctgct cgaggaccag agccaggtgg 300

agtctggatc gctctccctg gctgactacg gccgcaggg caccttcgtc ggcgtctatg 360

atg 363

<210> 16954

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G11

<400> 16954

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aacggctttc ctctagcaat ggggggtggc cgcgccggcg acgacgacgt ggtgggtggg 120
aactgcggcg gcagctgcgg cggcgacccc ggcgcatacg ccgcggtgct caacaggaag 180
ctcgacctgt actgcgcgcg cgtcgctaaa tccatggggg ggttcctcct cctcctaccc 240
ctccaaagat tagacctttc taggcctact tgcgtattgg ttgtgtgatt gtgccttgtg 300
tgcacgacg tgtcaatttc agctccagct taatttccag tctcaatggg aagaagtgca 360
tgtctttcag ttacttcccc ccatcatttt tgggagggga attt 404

<210> 16955

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-G3

<400> 16955

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gccagcaggg actcttggtc accttgacct tgagtactac cgtctccact acttgactac 120
aaaatctgat gtctacagct tcgggggttg tctcctggag atactaagcg gcaggaaagc 180
gatcgacatg cagttcgagg agggaaacat tgttgaatgg gcagtaccac tgatcaaagc 240
aggggacatt tttgccatcc ttgatccagt cttatctcct cctcagacc ttgaggccct 300
taagaagatt gcttccgtgg catgtaagtg tgtcagaatg cgaggtaaag atcggccttc 360
catggataag gtgacgacag ctctagagca tgcccttgca ctgctgatgg gcagcccctg 420
cat 423

<210> 16956

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-013-Q1-E1-H7

<400> 16956

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ggaaaggaac ttggaatttc tgattgggtg catggatgat ctttcatcag agcagaacaa 120

gttccaatat tataaccgca atctctcaag acaacagtca cagcagcagg catggcttca 180
aaagagaagg caggagaaca tggcgaggaa agcagctggt gaggagccac taccagaaga 240
agatccatcc aatcctatat ttaagcctat tcctgagccc tcacgattgg agggctatct 300
agtaactaat cagatctgca gttactgcaa ccatatcaac ggggttgctg gtcagaattt 360

<210> 16957

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-A12

<400> 16957

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gagagagaga aacaaaaaat agagaactga gagatcgagg acaaaggggg agaggagatg 120
tctcggggcg gtagccacgg ggagctgggc cataggatcg attacgtctt caaggtggtg 180
ctcatcggtg actccgctgt gggcaagtcg cagctgctcg cgcgcttcgc ccgcaaccag 240
ttcaacctcg actccaaggc caccatcgga gtcgagttcc agaccgcac cctcaacatc 300
gacgccccga acgtcaaggc acagatctgg gacaccgcat gccaggaaag gtaccgagca 360
gtaacaagtg cctactacag ggggtgcagtt ggggctatgt tagtatatga cataa 415

<210> 16958

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-C12

<400> 16958

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actgtggaag gaaggctcca gcgtttgcac tcgcctgagg cctatgaaat gatcgagaac 120
catctcgccc tcattctggg gcagcgtcag agtgatgcca ctattgcagc cataagtaag 180
ctccgtgttg gccaggctca tgccgcatct gtgatgtatg gctatttcct gaagagagtt 240
gatcagaggt ttcagctcga gaagacaatg aagagcctcc cttggggatc agaagaggaa 300
gacggcgctt tgtatcaagt tatgacgacc gactcgatgc cttcagctca gtcttctagc 360

tctcaccag agatgggctc ctggaccgcc gcgcctgac

399

<210> 16959

<211> 613

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D9.F2

<400> 16959

ggggtttttt tttttaaaaa tatttttttt tttttggggg gttttttttt attttttgtt 60
ttttatttaa ataaggaaga ttggtttggt tgaaagggaa ggtgggggtt ttttattaaa 120
tttttttgtt aaaaccccc ccccccccca aggggggggg ccggcaagga aattggaaaa 180
aaaaaaaaac ccagggggc gaaaaaaaac cccccttaaa aggagggccc gggaaaacca 240
aaaaaattaa ggggggaagg ggggggaaaa aaaaagggcc gggaccccc ggttttaaaa 300
caacaagggg aaaaggggg gggaaaaacg gggggggggg gggcccaaac ccaaaacca 360
aaaagggggg caaaaagggg gggaaaaccc cccgccccaa aaaggggggg ccaagggaaa 420
acgggaacca caccacagg gggttaaac cccccgggc gcggggcccc acccgggggg 480
aacgaaaggc ccgaatttt tttctcttcc tcgggagggg ggggagaaaa aaggggccac 540
aaaaaaaaaa aaaggggggg gggggggggg gccgcattct gtggagggga aaaaaacaca 600
caccgggggg ggg 613

<210> 16960

<211> 592

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-D9.R2

<400> 16960

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtagggg acttcaagaa 60
cttcatcagc ctctgcctac agaagaaccc ggtgaaccgt ccgtccgcga tgcggctgct 120
gcagcaccgc ttctgtggcc agccgcagcc gcagccctg gccgccccgc cgtcatgatg 180
gctcgccgaa atccacaatt catgaccgat ttgattgatt gattgcttcc cgtcgtggta 240
caactgaagg cggcgggcgg attgatctct caccttgctg cctgaccttt ggggtggatg 300

gatggttggt tgcattgattg gttgtggatg gccatgagat gcggtacctt gagacgttcc 360
 tcctaatacct agctaggcat gcaagtggct caggacaagc cgctaaccgc cagggctgac 420
 cgcacctcgc cgcaacgacc cgcattgcga taccccgacg gcgtactgga gctcggaaag 480
 gcgcgcacat ggcgttccgc ggattatggc gccgccttgt atttcctgt cccatcggtg 540
 aagcagcagc agaggggatcg agttgatgca tagcatcaga agacgagagc ca 592

<210> 16961
 <211> 161
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.F1

<400> 16961

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 cttctagcag cttaaattta catcgggcaa catgttgcta gtagccaaa aaatctccgg 120
 gagctgtgca gttactcaaa attttggctt ggggggtgtac c 161

<210> 16962
 <211> 609
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.F2

<400> 16962

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 ggagctgtgc agttactcaa aattttggct tgggggtgta ccatgaaaga gagggtcacc 180
 ttttgtacag gccattccat ggctatgtta ttctctcctt tttttttcca aacgacacaa 240
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 caaagttaga cagaataaca gagagctact tatgatcaca tcatccact gtccaccctc 360
 gttctgcaat cacttcacga acacgagtag ctacttcaat gccgtcattt aggggagggg 420
 agctccagct atttgaaata ttttccaatc cagtgaacgg gcgaacaacc cctcgtcccc 480
 gtagagtctt gtgaaaagcc gaaaacttcc atttacagtg ttcgggtcca ataacataaa 540

caggtttccc tgtgtacct gcctcactta acatacttat cgagtctgct gttatgacaa 600
aagcatcaa 609

<210> 16963

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.R1

<400> 16963

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cttcagataa tgtgttcgtc atccagatcc aacacccacg atctcgctt gatagggttg 120
atttagtggt gactcctcgc catgattact atgctttaac cgctagtgga caacaagaag 180
ttccacacct gttccgcaga tggattactc cacaggaacc accaggaag taatagtggg 240
acttgactgt taggtgcact acaccagggtc tgattct 277

<210> 16964

<211> 657

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E10.R2

<400> 16964

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cttcagataa tgtgttcgtc atccagatcc aacacccacg atctcgctt gatagggttg 120
atttagtggt gactcctcgc catgattact atgctttaac cgctagtgga caacaagaag 180
ttccacacct gttccgcaga tggattactc cacaggaacc accaggagt aatgtggtac 240
ttactgttgg tgcactacac caggctgatt ctgctgcgt acggcttgct gctatagcct 300
ggcatgatga actcgccct ttgcctaagc cgttgctaata tgcagcatt gggggcccca 360
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tgctagatag ctgtgggagt gtcagaatct cattctctcc gagaacacca tggaagggtg 480
ctgatactat atttaaagaa tttgctggac atcccaaggt ctatatttgg aatggtgaag 540
aacctaacc tcacatggga catcttgcatt gggctgatgc ttttgtcata acagcagact 600

cgataagtat gttaagtgag gcaggtagca cagggaaacc tgtttatgtt attggga 657

<210> 16965

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-E9

<400> 16965

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atgcatgtac tcggctcgtc gcgcgccacg ggcatgcagg cagcaacaaa gaggccggtt 120

tcttcaccta aaaatctgtg tagaacatta cgatatatca tacagtctaa taatacccg 180

gctagtacat gggaaaggtt actatctaga aaacgacact gacaaggga 229

<210> 16966

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F1

<400> 16966

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aactagacat gtgatccaga cagccaagat ctgagatctg acggtagata tctgatgaaa 120

tcattttacg cattccttct cagtaatagc tgacaaatct gatgagaacg atctcaactc 180

gagagtttca attatgctat tactccgtcc aaaatccgtc taac 224

<210> 16967

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-F6

<400> 16967

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ccgcgaaggc caggctgcag gaaagagtgc ccgcgagact gctgcagaaa ccggctgaac 180

ccaacttttc cgcagaagag cagtagtatt tcgcttctct gacttctcgt tttgcagata 240
cagatatggg aaattgtttg cgtgacttgc aagcccgagg atggcatgcc cagattaaaa 300
agaataacaa aaa 313

<210> 16968
<211> 537
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-014-Q1-E1-G10.F2
<400> 16968

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cagataatgt tacgtttcct gatatccaat ggtacttaca aacgaactga cagattctag 180
gagcatggga taacttcgtt tttccaaagc atataactgc aacacaagca acctccctat 240
tagttctgta caattccgca gcaacattaa tttttgctga ggattgaagt tcactatatt 300
caccatttag caagctaattg ttttacctac tgcagacacc tgcttggcaa tccagtatat 360
gatagagacg ggcacagcaa taaatcaaac caagggttag cagggtgtctg catactggac 420
cttcgattta ccaataaacc agtttatgaa taaaccaagt gtatatgttg catactggac 480
cttcgattta ccaatctgtc cattacgatc agcgattaaa ccgtaagggt taggaaa 537

<210> 16969
<211> 641
<212> DNA
<213> Zea mays
<223> Clone ID: LIB83-014-Q1-E1-G10.R2
<400> 16969

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cgacgggcgcg taacctgtgg ggtttcaggt tttgtccctg cgtggcagcg acccagcccc 120
atcgagcacc gaggcattga accgggagcc aaatcggaag caaagcaagg tgaggcggga 180
tctggcgcgg gggcaagcgg cagcggcaag gtgtatcatg agaggcagag gctgcaattc 240
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ttggacggga ttgctggaaa tcttgttctc aatgatccag acaagggcca atggactcct 360
 ctaccattca tttttaaaacc tcaccacaat gttataactg ggaactatga tgtgaatgtt 420
 ctcatcacag cattagaagc tagaaacaag aaggtggttt ggcatgatcg tcgtaaaggg 480
 gcatcatcgg ttgatctgaa tgcagaaaca ttggtaggcc tgatgatcaa tgtacctatc 540
 aggaggttca gggggctttg gactggcagg cattgggtgg caattcgacg cattgatggc 600
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<210> 16970

<211> 121

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10.F1

<400> 16970

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 gacctggttg gcaccagcgt cttgccggac tcgttgggtg atgcgcggtg agaagggcgc 120
 g 121

<210> 16971

<211> 612

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-014-Q1-E1-H10.F2

<400> 16971

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 acctggttgg ccaccagcgt cttgccggac tcgttgggtg tgccgaggga gaagggcgcg 120
 gcgaggcggg ggccggagtc cagccgccag atggacccc acgactcgcg catcggcgtc 180
 cacgaccggg agttggcctc catgaggtcc acctgcacca cgtcgccgtc gccgtcctcg 240
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 cggagctcgt cgggtcggcc gggcttggcc atggcgccga acgccgtgcc gctgaggtcg 420
 aagtgttact tggccacggg gtagtagttc atgtcgggtg tgatcaccgt ctccggattg 480

ccggagcagc ctgggtggtt ntggcatcgt atctggtagc aggagccgca gcccttgccg 540
 tccttgaaga ggggctcggt gccgcacgat gtcacgcgcg agacggcggc aggttcacgt 600
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<210> 16972

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10.R1

<400> 16972

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 ccctcgctcg caaggtactg cactacggtg gdcgccacct cctcctccac ctccctccacg 120
 gtagttgtcc ttgcggcgct tctcttcttg ctccttgata acgtgtggct cgtgcgcgag 180
 aaccggagag cttaacgcc tccgacttt 209

<210> 16973

<211> 654

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H10.R2

<400> 16973

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 acggtagttg cacttgccgc gcttctcttc ttgctccttg taacgtgtgg ctcgtgcgcg 180
 agaccggcga gctttaacgc ctccgacttt accgcgcgacc ccaactggga ggctgcccgg 240
 gccacctggt acggtgcgcc caccggcgcc ggccctgatg acgacggtgg tgccctgtgga 300
 ttcaagaacg tgaacctgcc gccgttctcg gcgatgacat cgtgcggcaa cgagccctc 360
 ttcaaggacg gcaagggctg cggctcctgc taccagatac gatgccaaaa ccaccagcc 420
 tgctccggca atccggagac ggtgatcatc accgacatga actactacc cgtggccaag 480
 taccacttcg acctcagcgg cacggcggtc ggccgcatgg ccaagcccg cgcaccgac 540
 gagctccgcc acgccggcat catcgacatc cagttcaaga gggcgcctg caactacccc 600

gggcagaagg tgacgttcca catcgaggag gggccaacc cgggtgtacct ggcg 654

<210> 16974

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-014-Q1-E1-H3

<400> 16974

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cgcgcttggc gtcagtcaga gcgactccgg gcagcatctg gaccgccggg gcgactgatg 180
agcataagag gtgcctgaca tgcggtggct cttaccgaga cgacgagaaa cattcgagcg 240
cctgcgcctt ccatggccac gtcacacgcg agaaggggct gttctccctg tctgccacgt 300
accatggcat cgacagtgag tggggcgaca agagcgggggt cat 343

<210> 16975

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A4.F2

<400> 16975

atagaagacc tgaattaggt aaaaccgccc agaactaatc aatgaggggtt aaaagtactg 60
cgggtgaacac aattgccaca tgaagattcg caacatttct tagatgacgg tacataccga 120
gaacctgagc ctgataatat gtcggtcca cctaattggc aagagggaac gccttactca 180
ctggtcagaa acaaagctgg tcgctttaca cctagcactg agacgcattc tctcaccact 240
gtcttcagcg ccgcactgag gcgaactctg acctgtaaca atgggactcc ctaagaactc 300
gagcatcaag aacatgttga gactgtggct tttagaccgc ttaacatgga gctgacataa 360
gcctcacttt cagtttgaga tggccaatga ggcaaacctt gcgtcagaat aca 413

<210> 16976

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A4.R2

<400> 16976

cagactcttg ggaggccct atagacggtg cgcgagacgg tgtttgaagc aaagtgcgtg 60
gcagggtccg ggagc 75

<210> 16977

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9.F1

<400> 16977

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cacaactagc aaagacagaa gtttgatcag agatacaaat ataataaaat acaaccagaa 120
aattacatga tttttgacaa ccgtaccagt tccacaattt ataattaaaa tgtgcaaatt 180
aggaagtaga aacttaacgg tgaaaacata tcaaaatcac tagtcgctg ttgaattcaa 240
ctcgcatctg ttttaaccaat gtctccaaag atcacagatc agcccttccg gggaaccttg 300
ggaagggtat aacatctctg atgttctcca ttccggttgc aaatagaatc atccttacia 360
aaccaacccc aaa 373

<210> 16978

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9.F2

<400> 16978

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cacaactagc aaagacagaa gtttgatcag agatacaaat ataataaaat acaaccagaa 120
aattacatga tttttgacaa ccgtaccagt tccacaattt ataattaaaa tgtgcaaatt 180
aggaagtaga aacttaacgg tgaaaacata tcaaaatcac tagtcgctg ttgaattcaa 240
ctcgcatctg ttttaaccaat gtctccaaag atcacagatc agcccttccg gggtaccttg 300
ggaagggtat aacatctctg atgttctcca ttccggttgc aaatagaatc atcctttcaa 360

aaccaacccc aaaaccactg tgctttacag atccaaagcg acggaggtcc aagtaccatt 420
catagggttc caaaggcagg ccagcatcaa gtatcctctg tttcagaaca tctaaccgtt 480
cctccctttg gcttccacca atcaattcac caaccttagg cacaagaaca tccattgcag 540
ccaccgtctt gtatcatcat tgagtctata taaaa 575

<210> 16979

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-A9.R1

<400> 16979

gttaccgaca agaagtttga caacaaagtt gaatggggga attgatttag cctctgagca 60
tgaaaggtat ttaacagagg atatatttaa gaagccagtt attgtctata actatccgaa 120
aggaataaag gcattttata tgagactcaa tgatgatgac aagacggtgg ctgcaatgga 180
tggtcttctg cctaagggtg gtgaattgat tgggtggaagc caaagggagg aacggttaga 240
tggtctgaaa cagaggatac ttgatgctgg cctgcctttg gaaccctatg aatgggtactt 300
ggacctccgt cgctttggat ctgtaaagca cagtgggttta tgggttgggt ttagaaaggg 360
tgaatctatt tgcaaccgta atggataaca tcaaagatgt tatacccttc acaagggacc 420
caggaagggc tgatctgtga tctttggaac cattg 455

<210> 16980

<211> 643

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-A9.R2

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gaaaggtatt taacagagga tatatttaag aagccagtta ttgtctataa ctatccgaaa 120
ggaataaagg cattttatat gagactcaat gatgatgaca agacggtggc tgcaatggat 180
gttcttctgc ctaagggttg tgaattgatt ggtggaagcc aaagggagga acggttagat 240

gttctgaaac agaggatact tgatgctggc ctgcctttgg aaccctatga atggtacttg 300
gacctccgtc gctttggatc tgtaaagcac agtggttttg ggttgggttt tgaaaggatg 360
attctatttg caaccggaat ggagaacatc agagatgtta tacccttccc aaggtaccca 420
ggaagggctg atctgtgatc tttggagaca ttggttaaac agatgcgagt tgaattcaac 480
acgcgactag tgattttgat atgttttcac cgntaagttt ctacttecta atttgacat 540
tttaattata aattgtggaa ctggtaagggt tgtcaaaaat catgtaattt tctgggtgta 600
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<210> 16981

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B2.F2

<400> 16981

gatctatttc ttgtccacgc gtacacagac acgtgggcta gcgcgtgggc ggtcgcgtgg 60

catcac 66

<210> 16982

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-B2.R1

<400> 16982

cccacgcgtc cgcacacgcg tccgcgggga ccgttcgcat aaaaagcgag cggtagttct 60

atacgaacgg gcttacgtac acttgcatc 90

<210> 16983

<211> 61

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-B2.R2

<400> 16983

ggcgcgcgcg tttacgncac acgtacgcgg gcgggtgggc taattataga tcgcgagcat 60

<210> 16984
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C12

<400> 16984

cacagaccat cgagaacagc tcgaacgttg ggattgctgt ggcctcaag ccctgattgg 60
 ttatacagac cttttttcc ctttctaagt tcctaccatg actgtttggg tcagatcaga 120
 tcagctgggg aaaacaaaac tgtgggggtt cctggcatct ttgtttgctg tagtcagttg 180
 atttaatgaa ctccgaaatg tctcatggcg gaaaattttc ggtcgctgt gtagcgtct 240
 gttaaatgag caaccttcac aataattcaa gctcggtaga attctgaact tgttaaaatg 300
 acatttgca acgaatcagt tggcaattat 330

<210> 16985
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C5

<400> 16985

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 gaactacgca gcaatgtata agcatgtctg ctcttttgtc tcagcctaca tttgagattc 120
 agggcattgg actaagatcg cctacttatg ataataataa taataataac cggatcagaa 180
 cctgtgccgt 190

<210> 16986
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-C6

<400> 16986

tgcttgctgt ttccattgta cattgatctt tttgatgcct aatttatcaa gtcctgaaa 60

gttcagggtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggggggcagc 180
 tcaaaaggat caaagctaaa ttacgcttaa atgaaaatta aaatcccttc aaaaggggtca 240
 caaaaattaa attaacgggc cgtcgtttta aaacgtcata acgggaaaaa ccctggggta 300
 accaaactaa accgccttga agaaaatccc cctttcgaaa gcaggcgtaa aaccaaaaag 360
 gcccgaaaccg atagcccttc caaaaatttg ccaaccctaa atggcaaagt g 411

<210> 16987
 <211> 62
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G4

<400> 16987
 acgtcagcac atgaatgaaa ggcaaaacaa caaaaatgat aaaagatgag aaaaagtaat 60
 aa 62

<210> 16988
 <211> 268
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-G7

<400> 16988
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 ctttgcagta ataagacatc tactatcaac gcggatggta ctctgttggt tatagtcctt 120
 gctgctaacc acccttggtg ctggtgctgc tggagaggca ttgtacctgt ccatgcatat 180
 atgatataata tacgttgtaa cgttgtgaaa gcagacaatc ttgggtacca atgtttgtta 240
 ctctttcgct cgatgaagat cctgtaac 268

<210> 16989
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4.F1

<400> 16989

gtcgcgctcg gaaccttttc ccaacttgaa tgatctcagc acaccaacg aattttgggg 60
ggacaacacc ttgcgatgtt gcgagcatag ga 92

<210> 16990

<211> 584

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4.F2

<400> 16990

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tgggacaaca ccttgcgact tgcgagcaca tgaatcactg tgtagaaact atttacaagc 120
agtacaaggt acatccatga ctggacaatg agtgtcgatt ctcaattttt ctcactggta 180
aaccatcgta tggttaccga gccagcggcg agggctcttg cgtcttgctt tagagttag 240
gctgtctgaa cccttgacaa ttcatgaata aaagcccat aggagttag gacatacgat 300
ctcagctcta agcttggaga aaagaaaatt tcgaaaatac accaacaggg ggatcgtctt 360
caaacacccg gccttattgc tgaagctcgt tgggtctcact tcacatggac cacttctgt 420
cacacctaac tcaaccttga tctgtgttga gccgagtctc ttctcctccc ttgctgggaa 480
ccagctatgc tccttacaga tgaatcattc ggctctgcta agggattggg gacaaaacca 540
ccatggactc caaatttctg ctggctgtcc cacttgtaag gact 584

<210> 16991

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H4.R1

<400> 16991

acaagtcagg atccagagtt gttccatata gcggggaagg ggatggtgac tcggaagaga 60
cggctgagac tgaggacgag cccgaagaat ttcagtcagc tcacaaaggt gaggacttgt 120
cgaagatcag gatgcagctc gttcagattg agaatcagca agccagtttg cttaatcttc 180
tccagaaatt cagtgggg 198

<210> 16992

<211> 116

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB83-015-Q1-E1-H4.R2

<400> 16992

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ggctgatact gaggacgcgc ccgaagaatt tcaggcagct aacatagatg atgact 116

<210> 16993

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-015-Q1-E1-H7

<400> 16993

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ggcatatttc tcagcaacct cagcacacac ttgtactgga gatggcaatg ctatggttgc 120

acgtgctggg ttacctcttc aggatcttga gtttgtacaa ttccatccta caggcattta 180

tggtgctgga tgcctgatta ctgaaggttc tcgtggtgaa ggtggatatcc ttagaaatag 240

tgaaggtgaa cggttcatgg aacgatatgc tcctactgca aaagatcttg cttctcgtga 300

tgttgtttca agatcaatga caatggaaat tagagaagga cgtgggtgtag ggccattgaa 360

ggatcacatt tatttgcac tgaatcatct gccgcctgag gttctcaaag aacggctccc 420

tggtatttct gaaa 434

<210> 16994

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-A5

<400> 16994

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caggacctcg cgcagatcgc gcagcacgtc cagaagatga ccggcgccaa gaacgtccgc 120
ctcgagacgc agctcgacca ggcgctcadc gccggcttca ccgtgcagta cggcccgac 180
ggctccaaact tcacgcagat gagcgtccgg aagcagatcg aggagatcgc gtccgagttc 240
gagttgccccg ccgtcccgcct cgaagtctga ggccggcttg aggcgtccat cctcgccctc 300
gaagctatag gtcctttttc tgctgcctct ctcctgctc ttcattctgta tcattctctg 360
gatcttgaat gcttgagtga atgggtgaata ccgcatacct gtatttcagg aatcatattt 420
gattaaatg 429

<210> 16995

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B10

<400> 16995

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agctcccttg tctgtacgta catattgatt ttattttacc tcaattgtta gagttgtttg 120
ttat 124

<210> 16996

<211> 164

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-B4

<400> 16996

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aactgaaaat gaatgtatga aaaaactgac agttgcctca caagaagaaa aaagagaaaa 120
aaaggtctcg aaaaaaaagt aaggaacatg taaaagtacg tcaa 164

<210> 16997

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-C1

<400> 16997

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ctgttcgaat ccttgcttac ggtattccgg ctgatgccgt tgacgaatac gtacgtattg 120
gggaatctac tgctcatgag gcattgaaac acttttgcac ggctgtccaa accgcgtttg 180
ctccgtatta tctccgtgca gcaaatgcag aagatatcgc acgccttctc caagttggcg 240
agtcacgtgg gtttcctggg atgcttggtg gtgttgattg catgcattgg gagtggcgta 300
actgcccaag ttcattggaag gggatgttta cagggcggtg taaacatcct accatgatct 360
tggaagctgt tgcgtcgtat gacctgtgga tatggcatgc atattttggt ctgccaggta 420
gttgcaacga ca 432

<210> 16998

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-D1

<400> 16998

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cgccggctcc gtatctggcg aggaagggga tgacgacgac gaggatgctg cggcgccgcc 120
cgcgaggaa gctgagggcg aggggcagca ggaggaggag gtcgacgagg aagagatcga 180
agccgtcact accggcgctg gagctgagga cgaggaggac gccggtgccg ttaccgccgc 240
tgaaggcgac gacgagtcct agtccaccga ggacgacgag cccgtcgcga gggacaagga 300
cgatgacgac gagactgatg cagtggttgg gaagcgagag aaagcaaggc taaaagaact 360
ccagaagatg aagaaacata aaatccaaga aatattagat actcaaaaag aaaaa 415

<210> 16999

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-E7

<400> 16999

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actgcaacca ggacaacaag ccgcttgcca aggagctggg cataaagggt gtgccaacgt 120
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tagcgcaagc catcgacaca gtcaagtcag actgacaaag aaagcaagtg atgcaactag 240
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gtacgtactc atcaacaatt aatgatggat gatggcaatg gcaaataac agtcaatgat 360
tcatatatgc atgcatggac tgctatgcta gctagcagcc ctttgtaa atattgttta 420
aggaaatgat tc 432

<210> 17000

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-G2

<400> 17000

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gccctgtgcc atgggtattgg tcacatcact agcaatgtgt ctttcgctgc tgttgagtc 180
tcatttgctc acactatcaa agctctggag cccttcttca gcgcagcggc tactcagttt 240
atccttggac agcaagttcc cttctctctg tggttttctc ttgcccctgt ggtcattggg 300
gtttcaatgg catcccttac tgagctttca ttcaactgga ctggcttcat caatgccatg 360
atatcaaaca tctcattcac ttacaggagc atttattcca agaaagctat gactgacatg 420
gatagcacca acgt 434

<210> 17001

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB83-016-Q1-E1-H5

<400> 17001

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caatttcttt tgtaatcact ccgatgatgt agaagaaaat cctgatgtaa cttgtaatca 120

ttttgtcata aagaatttat ttccgctgca aaaggaaatc atcagaaaag gcagcataaa 180
aaagcaaaag aaaaaaaaaa aaaaaaaaaa gagaagaata aggaa 225

<210> 17002

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E5

<400> 17002

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ctgcaaagag ctggcagcac agcctgatgt cgatggtttc cttgtgggag gtgcttcttt 120
gaagcccgag ttcacgaca tcatcaacgc cgccgccgtg tgaagtccgc tgaagatggt 180
ccaacccttc accctgttgc ggtgatgtgc tgaagacaga tcagactact tttttgttta 240
accgtgcagt gctatgtaag ctactaactt tgcgctgggtg cggatgctga tttccctccc 300
cctagctttt tgtgaggcta ctctacagct tgattcagct tgctaataat gtttgccctc 360
ggacatagcg atagtgggtg ttgtgtagcc cttttttt 398

<210> 17003

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B8

<400> 17003

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gcctgtcgga accatgggtg cagtacctgt ccacgaccaa gttcgtcaga gcggacagag 120
agaagatgag ggttctgttt gggttcttgg gggagtgcct gaggtcgtc gtgcaagaca 180
acgagctggg aagcttgaag cttgccctcg agggaaagcta cgtcgagcct ggccctggcg 240
gcgacccgat ccgtaaccgc aaggtgctcc cgacaggga gaacatccac gctctcgatc 300
cgcaggccat cccaaccacg gctgccttga agagcgccaa gatcgtcgtg taccgtctcc 360
tggagaggca ga 372

<210> 17004

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-E12

 <400> 17004

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 ctacaggagt tcaagacaga ctacaaccag acccacttcg tgcgcaaccc cgagttcaag 120
 gccgccgccg acaggatgga gggcccgcctc cgccagatct tcgtagagtt cctcgagcgc 180
 tcctgcaccg ccgagttctc cggcttcctc ctctacaagg agctcggccg caggctcaag 240
 aaaaccaacc cggtcgtggc ggagatcttc tcgctcatgt caagggacga ggcgcgccat 300
 gctgggttct tgaacaaggg gctgtctgac ttcaacttgg cgctggacct ggggttcctg 360
 accaacgcta tgaagtacac cttcttcaag cccaa 395

<210> 17005
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-003-Q1-E1-C7

 <400> 17005

 aagtccaatc catttctctt tctgctgctt gtgatttggt catgcggttt gtaacgagga 60
 cctcacatct ggagcatgag aagtttgatg cagcacaatc gcggctaatt gagcgaggag 120
 aaaaatttgg ggagatatct ttaaaggctc gcaagacaat tgcaatgctt agtcaagatt 180
 ttatttatga tgggtgtact atacttgctc atgggtagtc cagagtagta ctggaagtgc 240
 taaagcttgc tgcattccat cgcaagctct tccgggtact atgcagagag ggcagggcag 300
 acagaattgg tttaaggatg tcagatgaac ttgcagcatg taaggatcgc tgttaagggt 360
 ogaattgatg tagctggttg cgtagtccat tgatgaagtt gacatggggg tttgttggcg 420
 ctgatg 426

<210> 17006
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-A12

<400> 17006

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gcgccacagc gggactggcc atggctatga gatgaagcgt gatggcgagc ggcgagggaa 180
ctggggcact gccactgatg aacttattgc ccacgatgca taggactctc cgaagatgga 240
ggaggctgct cctgttgctg acaaacaagg tgagcagaat gatgccccag cagcagatga 300
gaacaaagat aacaaggatg ctactgcaaa tgaggaagaa gagaaggaag aggacaag 358

<210> 17007

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F7

<400> 17007

tactcgagaa gctcaagcac aagaaaaaga gactcgtcca gtcgcccaac tccttcttca 60
tggatgttaa gtgccagggg tgcttcagca taacgactgt ttccagccac tcccagactg 120
ttgttgtgtg ccctggctgc caaactgtcc tctgcccaacc cacatgagga aaggcaaggc 180
tcaactgaggg ctgctctttc cgcaggaagg gagactagac cggatgtggt cgtcaagttt 240
tgctctatgc cacatactaa cgtcatgaac tgccttttagc taacattttc cagaacttgt 300
tctc 304

<210> 17008

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F8

<400> 17008

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ctccacgccc tcgtcccga gaagcagagc gaggaggagg tcgcgcccgc agcgacgacc 180

acgagcagca ggcgccaccgc cacggggcggg gacgagggcg cccacgtgct ccaggggtgg 240
 gccaaagagga agcgctcgcg ccgccagcga tcggaggagg agaacctcgc gctctgcttc 300
 ctcatgctct cccgcggtgg ccaccaccgc gtcaaggcgc cgccaacgcc ggtcccgtcc 360
 gcggcgccgg ccgccgcgga gt 382

<210> 17009

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F10

<400> 17009

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 agccccgtct cccagcgaag cttgagcttg cattattcta ccatgtcttc catggagctg 120
 ctccacgccg tcgtcccga gaagcagagc gaggaggagg tcgcgccgcg agcgacgacc 180
 acgagcagca gcgcaccgc cacggggcggg gacgagggcg cccacgtgct ccaggggtgg 240
 gccaaagagga agcgctcgcg ccgccagcga tcggaggagg agaacctcgc gctctgcttc 300
 ctcatgctct cccgcggtgg ccaccaccgc gtccaggcgc cgccaacgcc ggtcccgtcc 360
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<210> 17010

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F7

<400> 17010

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 cgaaggccgc ttccgaggac acatcggcct ccggcgacga gttgatcgag gacctcaaag 180
 cgaagtggga cgccgttgag gacaagccca ccgtcctctt gtacggcggc ggcgccgtcg 240
 tcgccctttg gctgacgtcc gtggtcgtgg gcgccatcaa cgccgtgccg ctgctcccca 300
 agatcctgga gctcgttggg ctccggtaca ccggtcgtt cgtgtaccgc taccttctct 360

tcaaggaaag caggaaagag ttggccgccc acattgagac cttgaagaaa aaaatagctg 420
g 421

<210> 17011

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H7

<400> 17011

aatcgacaag cacgcgcgga cggcgcctggc cttcgtgacg ctcaagcacg acgggggagcg 60
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cctgggcctg gtgcggcgcg ccagggtgtt ccactacggc tccatctcgc tcatctccga 180
gccgtgccgc tcggcgacaca tggccgceat gcgcgcagcc aaggcggcgg gcgtgctctg 240
ctcctacgac cccaacgtgc gcctcccgtc ctggccgtcg cccgacgccg cacgcgaggg 300
catcctcagc atctggaagg aggccgactt catcaaggtc agcgacgacg aggtggcctt 360
cctcacgcgc ggggacgcca acg 383

<210> 17012

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A10

<400> 17012

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tctgtggcct tcttcgcgaa ggctgggctg gattacgttt cttgctcccc ttccaggggtt 120
ccgattgcta ggctagctgc agctcaggtg cttgtctgag gctgcctcct cattggcaac 180
cggattgcct gctgctgggt gatgtggtga tcaacagtat tattacagag ccatgctatg 240
tgaacattac tagtagcagt gtcataaaa gctacaatcc catgtccttt ttttccccag 300
tcaagttaaa cttccaaaac ggctccatgg ggtcaaaagc tctgttcttc aatacatcaa 360
gcaattatcg aataatatac gttgcaaaaat ttttt 395

<210> 17013

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-002-Q1-E1-D6

 <400> 17013

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 gtgggcaaga ctatccggta caaagttgga aactgattg agatccccag ggcagctctg 120
 gtggctgatg agatagcgga gcaggctgaa ttcttctcct tcggaacgaa cgacctgaca 180
 cagatgacct ttgggtacag cagggatgat gtgggaaagt tcattcccggt ctatcttgct 240
 cagggcattc tccaacatga ccccttcgag gtcctggacc agtggggagt gcgcgagctg 300
 gtgaagcttg cgacagagag gggcgcgtca actacggcta actttagtagt gcgcatttgt 360
 ggaaaagacg gtggagagcc gtcc 384

<210> 17014
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-003-Q1-E1-C2

 <400> 17014

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 aagtgggtgat caacagtatt attacagagc catgctatgt gaacattact agtagcagtg 120
 ctcataaaag ctacaatccc atgtcctttt tttccccagt catgtaaaac ttccaaactg 180
 ctccatgggt caaaactctg ttcttcaata catcatcaat tatcgattat at 232

<210> 17015
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E6

 <400> 17015

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aagctcaagg tcctggctaa cgccgatacc cctgatgatg cattgactgc gcgaaacaat 180
 ggggcacaag gaattggatt atgccggaca gagcacatgt tctttgcttc agacgagagg 240
 attaaggctg tcaggcagat gattatggct cccacgcttg agctgaggca gcaggcgctc 300
 gaccgtctct tgccgtatca gaggtctgac ttcgaaggca tttccgtgc tatggatgga 360
 ctcccgtga ccatccgact c 381

<210> 17016

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C3

<400> 17016

gagataatgg ttcctcttgt tggaacacca caggaactgg ggcatacaagt gagtcttata 60
 cgccaagttg ctgagaaagt gtccgccaat gtgggcaaga ctatcgggta caaagttgga 120
 acaatgattg agatccccag ggcagctctg gtggctgatg agatagcgga gcaggctgaa 180
 ttctttctct tcggaacgaa cgacctgacg cagatgacct ttgggtacag cacggatgat 240
 gtggggaagt tcattcccggt ctatcttgct cagggcatcc tccaacatga ccccttcgag 300
 gtccctggacc agaggggagt gggcgagctg gtgaagtttg ctacagagag gggccgcaaa 360
 gctatgccta acttgaacgt gggcatttgt ggagaacacg gtggagagcc ttcctct 417

<210> 17017

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-013-Q1-E1-A5

<400> 17017

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 ttctggtaag ggcagagacc agccctgagg acgttggtgg catgcacgca gctgtgggga 120
 ttcttacaga gagggtggc atgacttccc acgtgctgt ggtcgacgt ggggtgggga 180
 aatgctgcgt ctgggatgc tcaggcattc gcgtaaacga tggggagaag ctctgacga 240
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tgatccttgg gaagcagccg ctttccccac cagcccttag tggatgatctg ggaactttca 360
 tggcctgggt ggatgatggt agaaagctca aggtcctggc taacgccgna taccctgatg 420
 atgcattgac 430

<210> 17018
 <211> 307
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-D8
 <400> 17018

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 ccactgaga tcaacggggt gccgtcggaa atcctcgacc cgatcaacac ctggacggac 180
 aaggtcgcgt acaaggagaa tctcctgagg ctcggggggc tcttcaagaa gaacttcgag 240
 gtgttcgcca gctacgacat cggggacgac agcagcctga ctgacgagat cctcgccgca 300
 ggcccca 307

<210> 17019
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-029-Q1-E1-A6
 <400> 17019

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 agatgggttg tgggaccctg gcagagcaga cttatttggt ccttggtgct ggggaggctg 120
 gaactgggtat tgcagaactt attgctcttg agatttcgaa acagacgaat gctccaattg 180
 aagagtgccg caagaagggt tggctggtgg actcaaaggg tttgattggt gactctcgta 240
 aaggctccct tcagccattc aagaaacctt gggcgcatga gcacgagccc ttgaaaacct 300
 tgtatgatgc tgttcagtcc atcaaacctc cagttctgat cgggacatct gga 353

<210> 17020
 <211> 383

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-H9

 <400> 17020

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 acagtagatg agatctacaa ggttgcata atagtactga gtccgaatgt tcccgggcaa 120
 atctttatgg gagtgcgttg taaccctcct aaacctggag atatctcata cccagttca 180
 ctgccgaaag caagtcctac ctgcaatctt tgaggaggag agcgcgcgtg atgacagacg 240
 gtttcaacag ctgccgaaat gtggtgtgca atttcacaga aggagctatg tactctttcc 300
 cccaaatata gctgccagca agagccatcg aggcggcaaa gagagccggc aaagcagcag 360
 acgttttcta ctgcctcaag ctc 383

<210> 17021
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-004-Q1-E1-F6

 <400> 17021

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 gatacggcga ggatgatctc cctctagtat catttcagtc tgtctccaaa ggatactatg 120
 gagagtgtgg taaaagagga ggttacatgg agattactgg cttcagtgtc ccggttaagag 180
 agcagatcta caaggtagct tcagtgaacc tgtgctccaa tatcactggt caaatccttg 240
 cgagcctcgt catgaatcca ccaaacgttg gggacgaatc atatgcttcc tacaaggcac 300
 agaaagatgg aatccttcag tcttttagctc gccgtgcaaa ggcactggaa gatgcattca 360
 acacgcttga gggattttca tgtaacaacg ctgaaagagc aatgtacott ttccctc 417

<210> 17022
 <211> 91
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-A8

 <400> 17022

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 acatcgtaac atctgcatgc tgttttgtaa t 91

<210> 17023

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A10

<400> 17023

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 aacttcagg tcctcaaaga gatgtacaac gagtggccat tcttcagggt caccctggac 120
 ctgctggaga tggttttcac tagaggatag ttcggcactg gcagattgtt cgaccatatt 180
 cctgtcgagg catttgacat accctggagg atgccgctca cggac 225

<210> 17024

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B8

<400> 17024

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 tcgaggccag gaaaccagat ttgatgcct ttattgatcc gcaaaagcag tatgctgatg 120
 ctgtgattga agttctgccg acccagttga ttcccgacga caacgaagga aagggtgctgc 180
 gtgttaagct catcatgaaa gaaggggtga agaacttcaa cccggtttat ctctttgacg 240
 aaggatcgac catcagctgg gtgccttgtg gaagaaagct cacatgctct taccctggca 300
 tcaaattttc ctatggcccg gacacttact tcggaaacga ggtatctgtt ctggagatgg 360
 atgggcaatt cgacagacta gatg 384

<210> 17025

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A11

<400> 17025

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ccaccaccct cgccatgggc agcgccgcgc cctcgccgcc gccgtccggg aagccgacgc 120
aggacgagct gaagcgcttg gcggcgaccc gcgcggtgga gctcgtggag cccggcatga 180
cgctgggcct gggcacgggc tccacggcgg cgacgcgct ggaccgcctg ggcgacctcc 240
tccgcgcggg cgcgctgccg ggggtggccg gcgtgccgac ctcgctcaag acggatgcgc 300
aagcggcgcg cgtcggcatc ccgctgctcc cgc 333

<210> 17026

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F7

<400> 17026

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ctcggctgca agttcgtcgc ctccgccgtc aacaaggccg ggctcgccca gctgatcggg 120
ctcgccggcg agaccaacgt gcaggagag gagcagaaga agctggacgt cctgtccaac 180
gaggtgttcg tcaaggccct cgtcagcagc ggtcgcaccg tacgaatata cctccttgtc 240
cactgcgatt atatattgtc cgtttgagtt ccgagagtgt tctgctttct gactcggg 298

<210> 17027

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H5

<400> 17027

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catgggggtga gtcggcatt gacatcgta tcgagggcac cggagtcttc gtcgacggcc 120
ccggcgccgg caagcacatc caggccggcg cgaagaaggt gatcatcacg gctcccgcga 180
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tcgccgacat catcagcaac gcgtcctgca cgaccaactg cctcgcgcca ttcgtcaaga 300

tcttgacga ggagttcgga atcgtgaagg ggaccatgac gacgacgcac tcgtacaccg 360
gcgaacagag gctgctggac gcgtcccacc gc 392

<210> 17028

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D3

<400> 17028

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acgacaccgg cgggtgtcaag caggcgtccc acctgtctaa gtacgactcc acgctcggca 360
tcttcgacgc cgacgtcaag cccgtcggcg acaacgccat ctccgtcgac cgc 413

<210> 17029

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F5

<400> 17029

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attaagatcg gaatcaacgg cttcggaagg atcggcaggc tcgtggccag ggtcgccctc 120
cagagcgagg atgtcgagct cgtcgccgctc aacgaccctt tcatcaccac ggactacatg 180
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aaggactcca agacccttct cttcgggtgac aagccgggtca ccgtctttgg catcaggaac 300
cctgaggaaa tcccgtaggg tgaggctggc gccgagtatg tcgtggagtc caccggcgctc 360
ttcactgac 369

<210> 17030
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B5

<400> 17030

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tatggttggtt cattttctttt cttaacactt gcttttagact tgaatgaatt aagaaggggg 120
aaacacttttt gtgggtgtaa ataatttagt tcaagcaata ggtaatccaa cgatcatgat 180
gcttggttatg gtttagtagt agcttatcta tgcttttctg ctcgctttta cctgtgggtg 240
catatcaagt attattaaaa tgccttggtg tctaaatatg atatattgtg ttgggggcct 300
tcggcttccg aaggtcctca aaaacatgat ttaacaatgt ttctggagta taatgtgtga 360
acaggtatct tcggacttga atcagaaagg gagaagctca caagat 406

<210> 17031
<211> 87
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C10

<400> 17031

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atataataaa actatcttaa tgatgtc 87

<210> 17032
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E11

<400> 17032

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ggtacaagga gctgcaggag gccatcgccg cgtaccgga cgctttccac cgcgtcatcg 120
gcttcgacaa cgtcaggcag acgcagtgcg tcagcttcat cgcttacaag cccccggca 180
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tcttttctcc tgcattgcaat ggttcctttt gcttccaaca attctcctgc tgatgtatcc 360
agcatggcat catccatcta caattacgta cgtagtgcaa cgactgtc 408

<210> 17033

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D1

<400> 17033

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gttccagcgt ctcaagtctg ccgccagcct ctccgtcgcc cgccgcagca ccaggagcct 180
cggcaacgtc agcaacggcg gaaggatccg gtgcatgcag gtgttgccgg cctacagcaa 240
caagaacttc gagacgtgt cgtgcctgcc gccgctgtcg acggacgacc tgctgaagca 300
agtgggctac ctgctgcgca acggctggat agcctgcctc gagttcagca acctcgggtt 360
cctgtag 367

<210> 17034

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G1

<400> 17034

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gctagctagc tcttgcgtga gctagtagct agtgccatgc gtcgtctctg tcgttcgggt 180
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atgtatccat tgttgcaatc atggccttgc attggctacc tctatacgtg ctacatggct 360
actgcaacgc ctatatatac ttgggggtgag gaacatgtga atgcaagctc cggctatcat 420

atacatg

427

<210> 17035

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E1

<400> 17035

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gggtctcaag tccgccgcca gcctccccgt cgcgcggcgc agcacagga gcctcggcaa 180
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gttcgagacg ctgtcgtacc tgccgccgct gtcgacggac gacctgtga agcaggtgga 300
ctacctgtg cgcaacggct ggataccctg cctcgagtgc agcaagctcg ggttcgtgta 360
ccgcgagaac tccagctccc cgtgcgacta cgacggggcg tactggacca ggtgg 415

<210> 17036

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B4

<400> 17036

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ttgagaccaa caatatttga tcgccttcca gaattcagaa cctgcggcta attcaccag 120
ccatttgcaa gctgctttga taatttcagt accttcacga gcaagatctc gcccttcgtt 180
acgagcttgt acacaggcgt cgaacgccac acgattagct gctgcaccag gtgcatttcc 240
ccaaggatgt ccgaaagtgc cgccaccaa ttgtaatacg gaatcatctc caaagatttc 300
ggt 303

<210> 17037

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A2

<400> 17037

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tacaggacca tgttgaagct gccgatgttc tgctgcatct acgccacca ggtgtcaacg 180
gatctgcacg atgccatcaa atcctaccgc gacgccttcc acggcgtcag ctgattctac 240
aacatcaagc acacgcactt cgtcagcttc atcacctaca agccccctgg cagctgactc 300
atcgctcccg gcgtgccgac cagcccggtt 330

<210> 17038

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D4

<400> 17038

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ggtggaaggt catcagccag agaaaccatt ggcaggggtgg ctgcaggagc tcttgcaaag 120
aaaattctaa agctcaaatc acgagtggag atcttggcat ttgtttctaa agtgcaccaa 180
gtcgtacttc cagaagatgc agttgattat gagactgtaa ccttgggaaca tatagagagc 240
aacatcetta gatgtcctga tccagaatat gcagagaaga tgattgctgc cattgatacc 300
gtacgagtta gaggagattc aattgggtgg gtcgtcacat gcattggaag aaatgttcct 360
cgtggctgtg gatccccctgt ttttg 385

<210> 17039

<211> 206

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-A1

<400> 17039

cccacgcgtc cgaccggccc cactcgcgtg gttcctcatg gagagcccca cctctggct 60

cccaccgctc gtctctctcc gctggccgcc gccgcgcgc tccggccac tcgcgcact 120
 ccccgccgcg ctctacgcgt tccactacgt cnagcgcag ctggtcaacc ggctcggcct 180
 cgccggcctg cgccggcgccc cggccc 206

<210> 17040
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-A2
 <400> 17040

aacagcgta ggtcagccgc cgcgcgcgtcc gcctcgccca ggcagcagc cgccgcagca 60
 catcgctatc tcgatctcag gcatggcgga ggtggcgag caacaggaca cgccgaagct 120
 gttcaaccgc tggaccttca atgatgtcca ggtgaacgac atctcgctga acgactacct 180
 cgctgtgaac gcgacgaagc acgcgatgta cctgccgcac accgcggggc gttactccaa 240
 caagcggttc cgcaaggcgc agtgctcgat cgtcgagcgc gtcacaaact ccctcatgat 300
 gcacgggtcc atcaacggaa agaacgtcat ggctgtccgc atcatca 347

<210> 17041
 <211> 286
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-A3
 <400> 17041

cccacggcct ccgaacacgc gtcaggcgag cggtcgccct tttttttttt tttttttttt 60
 tttttggcaa gaaaagtaat aactatacga ttttgggaac gaaagcaaaa tacgaacgag 120
 cttctgacgc tactactcaa gatagataac ggttctacac atgttaccat cacaagttca 180
 tcaatatgac tccaagggtg taggtaagtc taaggggcaa ctttggttaca ctcacgaagc 240
 agtggaaaac tatacaaaat tactgccccg gtatcacacg tcttca 286

<210> 17042
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A4

<400> 17042

actagttcta gatcgcgagc ggccgcccgc gatcttagga acgccgaggg tcgccgccgg 60
tagaagaaca gcttcggaag ctggtcgggc gggacgggtgc gtcgtcgagg tgtccgcgtc 120
ctcgtccccg gccacggccg cgggtggcgac ggaggtgccc ggggtgatga aggcctgggt 180
gtaccacgcg tacggggacg ccggcgtgct caagctcgac gaggccgcgg ctgtgccggc 240
cgtgggcgag gaccaggtgc tcgtcaaggt cgtcgccgcg gcgctcaacc ccgtcgatgc 300
caagcggcgg ggccgcaaag tccaggccac cgactcccct ctgcggaacg tgccggggta 360
cgacttgctc ggcgtcgctc tcaagggtggg 390

<210> 17043

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A5

<400> 17043

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cctcagctga gtataatcga ttcggatcgc cgtaccttcg cggttatgaa gacttgggtca 120
cttccttgca acctaaagtc aggatgtgaa cacgatggat aaaaatgatg ttgtattgat 180
gagatgatga aattagacta gatgcaaaca atgtctatta atattcaatc tggcggttaa 240
atattgaaag taaggactca ctttagtaag ctattttctgc aaaagtatct aagttgattc 300
ttgctaaagc ctctccttga ttctatttta tccagcatac ccttgagagt cttttcctta 360
gtcgggtaag acttgctgag taattccata ctcagggttt tattccctgt tgtttttc 418

<210> 17044

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A7

<400> 17044

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taattgcaag ccaaggcacc gtttcatgtc atcatatgaa cagaaagtc aaagttggga 120
 taagggttat cagtacctac tttttgctgc agagccctat gaaattattg cattcaagat 180
 accaagtaca gagattgata aatcagcgaa caaattcttc tcttactggg atcctgacaa 240
 gaaggaatat ctactgcaac tgtacttcaa gccaaagaccg ccagaagcta ataaaccacc 300
 accagctcct ccgggggactt tgcctaattgg gactgggggtt cctgttgctc caacaaggcc 360
 accggcgcaa gcccctccac ccctgcgaca agttccaccg ccccccgcct catgcagct 419

<210> 17045

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A8

<400> 17045

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 cttagtgacg cccctccgc ccgcccga cgaccgaac tgcgccgtgg tggccgcgca 120
 ctccaaggcc acctacgacg agcagtgggc ggcccacaag agcagcagca agctgatggt 180
 gatcgacttc tcgggctcct ggtgcgggcc ctgcccgttc atcgagccgg ccttcaagga 240
 gctggcctcc cgcttcaccg atgccatctt catcaaggtc gacgtcgacg agctcgcgga 300
 ggtcgcaagg acatggaagg tacaggcgat gccaacgttc gtgctggtca aggatgggaa 360
 ggacgtacgc cgtgtgattg ggggcaagaa cgacgagctt gagaggaaga tcaggatg 418

<210> 17046

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B10

<400> 17046

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 cgaccctagc aagaagacgg cggcggagat ggtgtactac gcgcttttgg tgggcgcaga 120
 gctggacggc ctcaccaacc tgcagcccag cgggcggtgc gacgaccca gcttccccta 180
 ctacctcaag ctcaagtgcg agaactgcgg ggaggtcacc gccaaagtcca cctacgtcac 240

tctcagcgag caagtcgacc tgcccaaggg acatggcacc gctcacctcg tccagaagtg 300
 caagctttgt gggagagatg gaacaattgt gatgattcct ggtcagggga cgccacttac 360
 tattgagcag agccaggaag aagagaagac ttgtttgatg gtgtttgact gc 412

<210> 17047

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B11

<400> 17047

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 ccgcccgtcc ctgctcgaga aaagcggttct tgacgtgccc gctgctgggc cactggacca 120
 cggccgcgcc gccgcgcgcc atccccctct cgctgctgctc gtccccggcg ctcatcgctg 180
 ccgtgcagga cctgtacgac ttcattctgct ggggcccgt ggtggacagg atcggctaca 240
 ccagtgagaa gatcgccgag tccatcgacc gctggcttct cgccgggggt ccggtggcgc 300
 gcctcttccg cctcaacgag ctccagctgt cggacg 336

<210> 17048

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B12

<400> 17048

cccacgcgtc cggcaggcgg tggaggagt gtaccggcag atgcccata tcacgcgtc 60
 ctacctcacc gccgctgtcg tcaccaccgt cggtgcacc ctcgaaatca tttcgccgta 120
 tcacctgtac cttaaccga agctcgtggt gcagcactac gagatttggc gcctcgtcac 180
 caacttctc tacttccga agatggattt ggattttcta ttccacatgt tctttcttgc 240
 acgatactgc aagcttctgg aggaaaactc atttagagga agaactgctg acttttttta 300
 catgctcttg tttggtgcta ctgtcctaac tggcattgtt ctgatcggag ggatgatacc 360
 ttacatttct gagacatttg 380

<210> 17049

<211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-B2

 <400> 17049

 agttaacggt gtcattctat tgtgagtcct gttgtgataa atttggacaa gtatatatat 60
 gtcggttata attcgtatga atgggttagct tgtttatggt ggggtccgagg aatgtaatcg 120
 atgggttcacc gttcctctgg aaaatgttgt gtttgcaatt tagagagtat tgttgcaatg 180
 actattatgt ttgacaacag aatactcaga aagtattggt gcaactccaa aaaaaagaag 240
 aagaaaaggg agagcgggca g 261

<210> 17050
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-B3

 <400> 17050

 atgcattgga ggagtggatg caaaagttac tttctgacat tgacttgtca agaagtgtct 60
 ctgttgctgc tttttttgag cttgaagctg ctgcacgttc atatttccaa gaacggaatg 120
 ggcgtccttc tgaacagtct gacaggagca actggtaatg gtgtgcttgg agaagctatc 180
 ttagatcagt ccgatgagct tgttagtaat gccttgaatc acaggaaacg gaaccttgta 240
 ttggaacatg atggtaggaa tggttcagta gcgtcttata ggggagttgt ttcagatgag 300
 gaccgtgtaa ctaatcccg gcatgctagg aaagactctg ctgaaagtat ttggagtgat 360
 ttgagttctt taagaggaag tgaattatct attccagggg ttagtagttt cctttggga 419

<210> 17051
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-B7

 <400> 17051

 accacgcgtc cgcccacgcg tccgcgcgc accagcgcca gcccgcgcgc tggtcagaag 60

gaggtccttc accgtgcgcg cctctctccg caaggccacc ggcaccgccg ccgtggcaat 120
ggctgccagc gccctgcttg ccggcgggtgc catggcccac gaggtgctgc tgggcgcagg 180
cgacggcggg ctctgtcttcg agcccagcca gttcacgcgc aaggccggcg acaccatcac 240
attcaagaac aacgccggct tcgcgcacaa cgtcgtcttc gacgaagacc aggtgccgag 300
cggggtcgac gccaccaaga tctcgcatga ggagtacctc aacgcgccag gcgagaccta 360
ctccgtcacc ctcaccgtgc cgggaacct 389

<210> 17052

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B8

<400> 17052

accacgcgtc cgcccacgcg tccgggctag aaaagcataa ttattataat tagtcatata 60
tcactagtta gtatctgctt aatgctttgt tataagtgtt tcgtcatctt caacgtagat 120
taattgtttt ataagattcc tctatatatt catacatgtg cattgtgcat cccatgaggt 180
acgataatta atcgcgtgat gcggaagacg agccaagtcg agcccaagcg cgggttacta 240
cgcatggtaa tgctgatgga agaacctccc tcatcagggtg ctaggacaag gatactcgtc 300
aagtgggtcat cgtctaacaa cactaaccta gtgttatcca ggttacgagt cacttgattg 360
tgattggtgt taaacgctgg tg 382

<210> 17053

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B9

<400> 17053

aaagaagaag gacggtggcg gcggcggcgg ggccgatgag aagaaggata tggataatga 60
gaaggataat aaagcggacg gcggcgataa taaggcggac aatgagaatg gcggcggcgg 120
ctcctgcgtg atagatgaag gccgacaatg aaaaaggcag cggctagaag aatgccgaca 180
aggataatgg ctgcggcgag aataatgcct gacaatgaga atggtgccga caagcccatt 240

gaggataatg aataagccca atgacgagac tgttacgctg aagattcggc tgcac 295

<210> 17054

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-C1

<400> 17054

cggacgcgtg ggcggacgcg tgggtttttt tttttttttt tttagataac ggttctacac 60
atgttaccat cacaagttca tcaatatgac tccaagggtg taggtaagtc tagggggcaa 120
ctttgttaca ctcacgaacc aatggaaaac tatacaaaa tactgccccg gtatcacacg 180
tcctcatggt ctttattggt gtcaaagttg cattaggggc aacgccatca cggcaccaaa 240
aactgaaaac atgaccagca ccatccagaa gggcacgcc ttcttctggt tcttgtcacg 300
gcgtacctca gccagtggtt gcgccctatt ggcgacgacc ggagcttgct ggacagcaag 360
ggatggaaca ngtgcaggat tctcctgtgg caccggctct gc 402

<210> 17055

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C11

<400> 17055

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tcgaggtggt cacatattca accttgatgg tgctggttct gatggaaggc caactccaag 120
atttgctgca tatggtgcaa caaagagaag tgttgtgcat ottacgaagt cacttcacgc 180
tgaattgcag atgaatgaag tgaataatgt gatggtgcac aatctatcgc ctggcatggt 240
cacaacagat cttcttatgt ctggtgcaac taaaaaaca gcaaaatctt tcatcaatat 300
attagctgaa cctcctgatg tggttgcaga ctaacttggt ccgaacgtca gagaaatccc 360
taccaggcaa tccatgaagc caacctaga 389

<210> 17056

<211> 437

<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-001-Q1-E1-C2

<400> 17056

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catcgaaggc cagaagtggc ccgcgactaa atggatccat gtgaggtcat ttgacctcac 120
cgtcaagcag ccgggtccct ctgatggatg tgaggacgac aatgtcctct gcccccagtg 180
ggcggccgtg ggcgagtgcg ccaagaaccc taactacatg gtggggacca aggaagcacc 240
tggcttctgc cggaagagct gcaaagtatg cgcagagtaa gcaaccattg ggatattctt 300
ggcggcgcc ggcggcctgt gggcggcgac gattccgtcg ttgacgttgc ctgcaagtgc 360
cctgtacttg tcnctcctgg tgagaggctt gtgcactcgt acgagagcgt ttcggtatcc 420
accggcggag agggatt 437

<210> 17057
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C3

<400> 17057

aacacgcgtc agaatgtgtt cacggacctg taatgcttgc tccttgtcat atgaccttgc 60
tctaaacatt tgtgatgaag ctgtcaaggc aatatatttt ctctaaatat ttagcctaaa 120
aaaaaaaaaa aaaaaagggc gagttctaga tcgcga 156

<210> 17058
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C4

<400> 17058

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tggccacggg catccccctc agcggcggcg gcggctacta ccaggcgggc ggcgcgatgg 120

cggcggcgtt cgcggtgcag ggcagggcgc ccgtcgccgc ctggtccacc gggctctgca 180
 actgcttcga cgactgccac aactgctgcg tgacgtgctg gtgcccgtgc atcacgttcg 240
 ggagaccgc ggagatcatc gaccggggct ccacgtcctg cggcaccagc ggggcgctgt 300
 acgcgctcgt catgctgctc accggctgtc agtgcgtcta ctctgcttc taccgcgcca 360
 agatgcgcgc gcagtacggc ctccaggtga gcccctgctc cgactgctgc gtgcactgct 420
 gctg 424

<210> 17059

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C5

<400> 17059

agccgcgtcc cagtgcgaag agaccacgac tcagatggcc agccgctggg tccggcccga 60
 ggtgtaccgc ctgttcgcgg caacggggcgt ggccgtcggc atctgcggat ttcagctctt 120
 ccggaacatc accggcaacc cggaagtcag ggtaaacaag gcagggaggg cagctggtgt 180
 gcttgagaac catgaggagg ggaggcggtta cgccatgcat ggcctaagaa gctttgtgca 240
 cgacaagact cctgagatca tgccctgcagt taacaagtcc ttcactgacc ctaagtgaag 300
 catgttgatt ggcatactac tactactact tgctactggg gattttacac tttgctggca 360
 actcaatatg ttggggacat ccctgacctc taaaagtact tttgagtgtc tggatgatgac 420
 ctgct 425

<210> 17060

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C6

<400> 17060

accacgcgtc cgcccacgcg tccgcccacg cgtccggtta gcaggataga gagggagagg 60
 agcagaagag agcagagggc cagaggcgca gaaggcagtc gcggacagga ggaagaggaa 120
 gaagaagcgg cagcgagcga ggatgccgtg cctgaacgtg tcgaccaacg tgaacctgga 180

gggggtggac acctcgcgca tcctcgccga agcctccaag tccgtcgcca acatcatcgg 240
 caagcccgag gcctacgtga tgggtgttct caaggggtcg gtgcctatgg catttggagg 300
 taccaggag ccagcagctt acggtgagct ggtttccatc ggaggcctga accctgatgt 360
 gaacaagaag cttagtgtcg ggatcgcttc tctcctggag tcaaagctgt cggttc 416

<210> 17061

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C9

<400> 17061

accacgcgtc cgccacgcg tccggcaacg acctcaagtt cccaacttc ggcacatcaaga, 60
 cggccgcaa cgccaagatg tggagcgagt ccggcacgtt catcgggtac gtggccgtgt 120
 ccaccgacga ggagacggcg cggctcggcc gccgggacat cgccgtggcg tggcgcgga 180
 ccatcaccg cctcgagtgg gtggccgac tgacggccaa ccagatcccc ctgcgcgaga 240
 cgggcgtccc ctgcccggac ccgacgtga aggtggagcg agggttcgcg gcgctgtaca 300
 cggacaagg cgccggctgc cgcttctgcc ggtactcggc gcgggagcag gtgctggccg 360
 aggtgcgcaa gct 373

<210> 17062

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D1

<400> 17062

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 tctctttgga acttgggtgg aatgcacctt gcattgtttt tgatgatgca gacattgatg 120
 ttgctgttaa aggcagtctt gctgccaagt tccgtaacag tggacagaca tgtgtttgtg 180
 caaacaggat attggtgcaa gaaggtatct acgaaaagtt tgcacatgca ttcacatcaagg 240
 ctgttcagag tttgaagggt gggaatgggc tagaagagag tacatctcag ggtcctctga 300
 ttaacgaagc tgctgttcaa aaggtggaga agttcataaa tgacgcgact tcaaagggag 360

caaatgtcat gctaggtggt agaagacaca gcctggggat gtcattttat gaaccaactg 420
tagtaagga 429

<210> 17063
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-001-Q1-E1-D10

<400> 17063

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caccttacgc tgctatgctt gctgctcaag acgtcgcaca gcgctgcaag gagcttggca 120
ttactgcact gcacattaag cttcgcgccca ccggaggcaa caagaccaag acccctggac 180
ctggtgcca gtctgccctc agggcgcttg ctcgttccgg gatgaaaatc ggacgcattg 240
aggacgttac cccggtcccc actgacagca ctcgcagaaa gggcggtagg aggggaagga 300
ggctgtangc gtctcgtctg cgtggcattt gccggctctt ggccggtggc cattatgaag 360
ctagccctct ctgggtggtg ttgctgttct gtgtttgtca agaccagctt taattttg 418

<210> 17064
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D11

<400> 17064

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cagacccaga ccctgccac gcgcggctcc tccccctcct cctcgtcttc tgccccgtgg 120
ccgcgtttcg gggcaacgcc gtccccgacg tcccgtgtgt caccttccag gacgacctcc 180
tccggcttgc tcctatcgag ttctgcgccg gcccgcgtgt cggcgagatg gttgtcgagg 240
atgtggccgt tgactgcagc cctagtcgtc cagctgaact gcgccgcagg ctgcggttca 300
agcgcattgc ctgccttgtg cagacccagg tgcgcctgcg tcagtcacac gcgtcgcctg 360
cgctgtcgtt ggaagcactg ggaggctcat cag 393

<210> 17065
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D4

<400> 17065

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 tttggaatct accttttctt ttgctttttc ccttataaaa ataactcaat caaaatccaa 180
 ttatctactc tacaagaatg aaatgcttgt tatgcctaata atacttagtt taacctgtat 240
 ctgtttttaat tctgttcttt gtcgactag ctttttcttc gccaaattac ccgaagctta 300
 tgccattttc aaccaaatcg tggatgttat gcctgtcata cctgtactct tttttctatt 360
 agcgtttgtt tggcaagctg ctgtaagttt tcgatgaaat ctttactatt ctgcctggca 420
 aattg 425

<210> 17066
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D5

<400> 17066

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 caccagacac acatacctta ttctccgccc tttcttggcc tccggaatc tcctccccc 120
 agttgcaagc atgggcgggt tcagcctcag cggcgctaca ggtctcgcg cgtgccgcga 180
 ggaagaagac gaggagctgt tcgagacgtc gtcttcgatc tccggcgact ccgacgacga 240
 gggccaccag ctctccgatg gagagggggg cgcctatgat ttgtcatctg tgatggcaca 300
 gctccctgtc aagaaagggc tatccagata ctacgacggc aagtcccagt ccttcgcgtg 360
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<210> 17067
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<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D6
 <400> 17067

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 ttcttgcagc gcttcctgct tttgggtcttt cacttctggt gcttgtgtta ctgcgagcat 180
 gggttcagcg tgaccatggt gctgagggaa gaggtaatat tgcacgatgt caacggaggc 240
 tgcttcttgt tgatgtagag agaaggctta tggagtttca acattacagg gataatggaa 300
 tggaggaaga ggcacggtgc aagtttggct tagtacttta cacgcttgat agactctgca 360
 aagctgttga gtcacacgca aaagaaacag gcgaatgggt aagcttgaga caagatattt 420
 ttgatc 426

<210> 17068
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D7
 <400> 17068

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 gtagcaagga gccattgttg gcgtgtgcat aaacacaaat attctcctcg ggtgactgat 180
 gacacaaaga cacattgttg acacataggc cccgtctggt ttattatccc gacacggcaa 240
 tttaaagagt ccagacggca gtagtttgca caatggccga tgcagaggag gtttacagca 300
 caaaggcctt gcggtagatg tcgaacttct ccgaggagga caggttgggt tcctccacgc 360
 cgctgaagtt ggcgaccttg c 381

<210> 17069
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-D8

<400> 17069

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gtagcagtgt cccaatgtcg gcgtgtgcag caacacacgt agtctcctcg ggtgtcagag 180
tccacaacga gacattgctg acatataagc cccgtctggt ttatgatccc gacgcgggga 240
ttgactgcgt ccaggctgcc agtactttgc cgc 273

<210> 17070

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D9

<400> 17070

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ttctgcgccc ggccatcctc tctctccatc accatggagc ttcttttctc cagccgcgcc 180
ctgctcggtt ccatggccaa cgttcccaa gctcctccct ccagtcacgc tgcggtgctc 240
cctgcgcgcc tgctcccgcg cgcgttcctc tgctcgtcgc gccacgcgag tctccatggt 300
caagcacgcg cggatctcct ctgagctcgc ccccggcctc tactccttcc agccggtcga 360
gtctcgactg cgctcggcct ccagctctgt tttcgcgcag ctgcgc 406

<210> 17071

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E1

<400> 17071

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tcctcggtgt ccttttcttg attctttctc cgtaggatct cttgctagga gtagcctgcc 180
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agatggggcgc ttgcgcttcg gtacacaagg acccggggca cccaagaag cagtttcttg 300
 actctccac caaggcgaag gccgccaacg ggaaggggtg cggggggcgc ggtgttgctc 360
 cggttggtga tggcttcggt gatctcaagt ccaaggtcga cgctgaggct gagcagctgc 420
 gggcaaagt 429

<210> 17072
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-E2
 <400> 17072

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 cggccacgcc caccaacatc gccacctggc tggtgacggg caccatcttc aactacttcg 180
 tcttcaggta ccgcaagggg tggtgccaga agtacaacta cgtgctctcg gcggcgctcg 240
 acgccggcac cgccttcatt gaggtgctca tctttttcgc cctccagaac gcgcaccacg 300
 agctcaagtg ggtgggcacg gaggtggatc actgcccact cgctt 345

<210> 17073
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-001-Q1-E1-E4
 <400> 17073

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 atccaagtgc ccacctgcc gcggtcaagc aatcacaagc gattccccag ctgtacagtg 180
 catgtttcgt gttctcctta gaacacctag acgaggtggt atttgaagaa gtctactcca 240
 atgcctgctc ctcaagtga tgaagccatc taactgggta ttggatagag ggatctagaa 300
 ccacttcact gcagcagaga acacctagac gacgtgggat ttgaagaagt ctactcgaat 360
 gcctgctcct caagtggatg aagccatcta actgggtatt ggatagaggg atcta 415

<210> 17074

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E5

<400> 17074

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gaactcacgg gtcagggtga acaaaaaata cagtagctag gaataatcga cggatgagtt 120
cagagcgaga ggccggagtc gtcgtcctcg tcgagcgtgg aggtgtagac ggtgtagagg 180
gaccagatga ggccgaagac gcccgacagg atccacccca gcaggttggt gctgagcccc 240
aggctgagcc cggtgccctc cgtcgacatc cgctcgccca ccagcgccag cgcgggagac 300
gtggtcaccg cgctgggtggc cacggccaga agcgacgacg atgcgccgtt gttgccgtcg 360
cgccgctggc tcggccgc 378

<210> 17075

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E7

<400> 17075

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atggccctct cctccacagc ctctgccggc aaggcagtga acgtgccgtc gtctctcttc 120
ggcgaggccc gcgtgacgat gcgcaagacg gcggcgaagg caaagccggc ggcgagctcc 180
ggcagcccgt ggtacggccc cgaccgcgtg ctctacctgg gcccgctgtc cggcgcgccc 240
ccgagctacc tgacgggcca gttcccgggc gactacggct gggacaccgc ggggctgtcg 300
gcggacccgg atacgttcgc caagaaccgg gagctggagg tcatccacgc ccgctggggc 360
atgctgggag cggtgggctg 380

<210> 17076

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E9

<400> 17076

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cgccatggac gtctcacact cgggatactc agtcgccggc gaggtccga cgacaggaga 120
gcaccaggtg gggactacca tcgtcagggc ctgctaccag ggctgcgtcg tcctgcgcgc 180
cgaatccatg agcagactgg aatgtatgta gccaacctg cttcacacaa gattactcaa 240
ctggcagaga acgtgtgatt ctgtcactct ggatctgctg cggatacaca tctcatttcg 300
gattatgtac gctatttcct cgaccaacac acaatccatc ttggccaacc agctaccgt 359

<210> 17077

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-F1

<400> 17077

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gcangcggct cctcgccccg gggctccgtc ggctcggcct gggcacaggc gcctccggcg 120
aggcgggtcc tgccgcggcg gcggcggggg tgagggcgta ccacgagcgg gtggtggacc 180
actacaacaa cccgcggaac gtaggttcct tcgacaagga cgaccccaac gtctgcactg 240
ggttgggtctg cgcgccagcc tcgggcgacg tcatgaagct gcagatccgc gtcgacgaga 300
actccggcaa gatcgtcgac gcctgcttca agacgtttgg ctgcggctcc gccatagcgt 360
cct 363

<210> 17078

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F10

<400> 17078

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gggtttggtc atggagttct gcgtaagacc gaccacggt attcatgtca aagggagttt 120
gccctgaagc atttgcccaa ggatccactt ttccaattgg tgtccaagtt gtatgaagtt 180
gtacctccta tcctcactga gctgggcaag gtcaagaacc catggccaaa tgttgatgct 240
cacagtggag ttttgctgaa ccactttgga ctatctgaag cacggtatta cactgtcttg 300
ttcgggtgtt caagaagcat ggggatagga tctcagctca tctgggaccg tgcccttggc 360
ctgccacttg agaggccgaa gagtgttacc atggagttgc tgg 403

<210> 17079

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F12

<400> 17079

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agccgggtgt cggcgaggaa cccctgatg agcaggaacc tggagaggaa tggcaggatc 180
acctgcatga cgtttccccg ggactggctg cggagggacc tgagcgatcat cggcttcggg 240
ctcatcggct ggatggggcc gtccagcgtc ccggccatca acggcaacag cctcacgggg 300
ctcttcttct ccagcategg ccaggagctg gccacttcc ccacgcccc gcccgtcacc 360
tcccagttct ggctgtggct aatgacgtgg cacctgggcc tgttcacgt gctca 415

<210> 17080

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F2

<400> 17080

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tttcaaggag cccaatgatg tcttcaagga gcctggcagc aataagcgtt tgaggtcagg 120
atgcaatgat gtgcatgtgc caacatctaa agcttctagg gaaaaaatga ggatgaacaa 180
gctgaatgac aggtttcttg aattggggtc tacattagaa ccagggaagc cagtaaaagc 240

tgacaaagct gctatcctaa gtgatgctac tcgcatgggtt attcagcttc gttcagaaac 300
acagcagctg aaggaaacta atggta 326

<210> 17081
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F3

<400> 17081

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ctgccacatt tacatttgtg gtcagagcat tctcagttct agatgggtatt gggaaaggcc 180
ttgatcctag gtttgatatt acagagattg ctaagccata tgccaaggaa ttgctaagat 240
ttaatgacgc tgggtgttgaa atagttgtga aggatgcaaa gaagagatgg gaaaggcagt 300
cccgtgcctt ttacaatttg ttccgccaac ccgatagagt tgaaaagctc gcacaaatta 360
ttgaacgttt ggagcaaggt gaactcaagc ttcgtgtcaa aacgctggga tcag 414

<210> 17082
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-F4

<400> 17082

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aaaaaagacc ccggcaagaa cctcgtcttc cggcgtctcc ggccaatacc catggaggcc 120
accgcagtgc cgagggtctt gttcctattc gggacatcgc cggcgccgta tcgtatgcgt 180
atgaactgct tgcgcgtagc tattggagga gatgtgaggc ggcagggggc cgtggcagt 240
tgggcgaaga agaagagggg gagggggcgg gatagcgaga cggaggaacg ggtggacacg 300
cacagcttca cccccaagc cgggccgaag gtgccgggct gttccccgaa ggcgttctgc 360
tta 363

<210> 17083

<211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-F6

 <400> 17083

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 gacactgaag ttggaagcaa tggacttcgt catctttctg gtctgcgtaa tttgcagagc 120
 atcaatctct ctttcacatt ggttactgac attggtttga agaagatctc tggcttgagt 180
 tcactgaagt ctcttaatct tgacaatcgc caaatcacag atactggttt agcgtctctt 240
 acaggtctca ctggattgac acacctcgac ctatttggag ctgcataac tgattctggc 300
 atgagctgct tcagattttt caagaatatt caatccct 338

<210> 17084
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-F8

 <400> 17084

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 gcggctgcag cggcgtcaaa ggaagctgct ctgaaagata atgcagagaa ccagaagccg 120
 aaactggata aggctgcttt ggagggttg aagattaaca tctacttccc aaagctgagg 180
 aaggtgaaag ctttgccact gaaaggcaca ggaaagcata aatacagttt cgcacatatt 240
 gaagttcctt cttatccaat tcatttctgt gactgtgaag agcactgtgg acctcctgag 300
 gaagctaata atgaatatgc ttctgttatc aatgctgctg catatgagaa ggaacgtaac 360
 attatgaatt ctgtgatgaa aaagcttttt gagaaagaaa atga 404

<210> 17085
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-001-Q1-E1-F9

 <400> 17085

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 aatacccttt ttgcaccacg agctctgggtt aaacctcttg gatggacaaa caaggatgag 120
 aagaaaccag atgttgcagg ggagttgaaa tcaaagagg agttccgaaa tctgttacta 180
 aagaagtgat atcagttggc aggtgtggat ctccatgcc caatccagt ccaagatttg 240
 tgggtgccttc atctctatgt tagaatgatg gacctgtagt agcagcttga actgggggatc 300
 tacaaccgtt atgtcttacc ccgatgtaga catgaatatt tctttctgct agggagatta 360
 taaaaccat gccgaattgc ag 382

<210> 17086

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G10

<400> 17086

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 tcatgggggtg tggcaaaccg cggctgctct atccgtgtgg ggagggatac cgaggcaaaa 180
 gggaaagggtt acctggaaga ccgtcggccg gcatcaaaca tggaccgta cattgtgacg 240
 gggctactgg ccgagaccac gatcctctgg cagccatccc tcgaggcgga ggctcttgcc 300
 gccaagaagc tggcgctgaa ggtgtgaagc agctgaagga tggttcaggc accaatataa 360
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<210> 17087

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G11

<400> 17087

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 agtgggtcca cttgggctac atcgggctct ggaccggcca ggccttcacc aagatgaacg 180

agcgcttcgt cgacgacgtc gccgcgcgcg tcgacggcag caaggacgcc aagcttctcg 240
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 acaggaacct ggctggctc gccggcggtg tcagcaagtg cgcgacggc gatttcgcag 360
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<210> 17088

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G3

<400> 17088

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 gttttgatgg ccgtgctaga gttgcaactt actcgagggc acagtcgtca aaagtggcag 180
 cagttgtaca ccggaagtta tgcagcattt aagatgatgg aaatggccaa gaatagggct 240
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 ctaaagcatc aggtgataga acttcagacg caacaccaag ctgatcagaa tcgcattaag 360
 gcgcttgagc atcagctagc taatgctcat tctaaatcaa aagttctgag tcagcaacaa 420
 gaaga 425

<210> 17089

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G4

<400> 17089

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 cgcgatcgcc agggccaatg ctctagggct gcctgcgctg agggcgagga gcgagagggt 180
 gcggtgcagc tacgccaacg acgcggcccc agtcagcacc aaggcgccac gcgcgtcgct 240
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gcgcatgtcc acggagggca ccgggctgag cctccggctc agcaacaccc tgcttgggtg 360
g 361

<210> 17090
<211> 107
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G5

<400> 17090

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gatgcaggta caacagtttg cacaattatt cttcatctta gtctgct 107

<210> 17091
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G6

<400> 17091

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agtactctga tcttgaagaa aaatattctc aaggtcagac tgaactggcc cggcgggtgct 180
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tgaacgatgt taacacgctg aactctactc tccatgetca gctcaactct gaaaaggaag 300
aaaaacgtgc ccttgctact tctcgtgaca accttgataa gctataccgt gacgccagca 360
actcattgac catcttggag aggagtcacg gcttcaccag ggaggagtta gataatcatc 420
g 421

<210> 17092
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G7

<400> 17092

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<210> 17093

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G8

<400> 17093

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gcatggtcac gtgacagagc cagttgcggg gttgtctgct aaggtaccat gtatgcgggt 120

ggcctgcata ggtatctgta tctcccgata atctccgct gtggcacgat taactggaag 180

cccagaacgc atgtctttat ctgcgtgctg ctgggaaccc tgatcccatg gtgcggtgga 240

cgctccatc 249

<210> 17094

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G9

<400> 17094

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acctgtctac tgcacatcc tgttcagcc cgcggtgct catcaagcag agggcgacgg 180

cggcacggc accggcacg gcaccggcac cggcacagaa agagaaagag gtcgtcttcg 240

tggctggcgc caccggcaga gttgggtccc gggccgtaag ggagctcatg aagcttggct 300

tccgtgtgcg cgctgccgtc aggaacgcac agagggccac gtcgctggtg cagaaagaga 360

aagagcagca gctgcttgag cttgtggagt gtga 394

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<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H10

<400> 17095

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tgttctacaa cccggcggcg agcaagatgg ccccgaacga cgtgttcggc gtggcggttca 180
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caagcttgat cttctccttc accaacgggg cggagtggga cgggccgtac accctcaagt 360
tcagggtccc gaagccatgg cagaagaagc cgctgagctt cttcaacgag ggcttggccg 420
acgagctcaa cag 433

<210> 17096

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H11

<400> 17096

cgagatcact tcgccgccgc cgcttttcgag atctccgggt ggagcaagcg agcaaaggca 60
gcagccatgt cgctccgctg gctgaaccct aacgccgagg tgctcaacaa gtcggcagcg 120
ctgcacatga acatcaacgc cgccaagggc ctccaggacg tgctcaagac caacctcggc 180
cccaagggca ccatcaagat gcttgtgggt ggagctgggt acctgaagct gacgaaggat 240
gggaacaccc tcttgaagga aatgcaaatt cagaacccaa ctgcaatcat gattgcgagg 300
acggctgtgg cacaggatga cacaagtggg gatgggacaa cctccactgt gctatttatc 360
ggggagccta agtaacagtc tgagcgggtgc atcgaatgaa ggactcatcc aagat 415

<210> 17097

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H2

<400> 17097

ctcgcgtatc gacgcacgcc tctaggatga gtcgaacgac tggtaggtgt gtgtgtgtgt 60

cgtgcgtgcc caccggccat atccccgtgc ggcagcacgt gctattgtta cgtgttgtag 120
 tgccgccagc gtacgtgtct gtgtgtctcg atcatatctg tacgttttta gatttagaag 180
 aaaaaaaaaa ggcattgtccg tgtctgt 207

<210> 17098

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H3

<400> 17098

acaagactct ataatgagtc gtagtacatt gattacgttg gttcctgggg tctgcaatc 60
 atcggccatg cagatgataa ggttaatgct gcattgattg aaactctgaa gaaaggaact 120
 agctttggtg ctccatgttt gctggagaac gtattggctg agatgggtcat ctctgccgtg 180
 ccaagtatcg aaatgggccg ctttgtcaac tcagggacag aagcctgcat gggagcgtc 240
 cgctcgtgc gcgattcac cgggcgggag aagatcatca agttcgaagg ctgctaccat 300
 ggccatgccg attccttctt tgtcaaagcc ggcagtgggtg ttgccaccct tggcctccct 360
 gactcccctg gcgtcccaa gggggccacc tacgagactt tgaccgcacc ctacaatgat 420

<210> 17099

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-001-Q1-E1-H4

<400> 17099

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 gacgcgctgg aacctgccga cctcttcagc cgccacctca cggtcgtcga cgtcggcggc 120
 ggacaggggt tcaccacgtc cggcatcgtc aagcacgtca acccgagaa cgtcacgtg 180
 ctcgaccagt ccccgacca gctcgacaag gcccggcaga aggaggccct caatggggtc 240
 accatcatgg agggcgacgc cgaggacctc ccgttccca ccgactcctt cgaccgatac 300
 atctccgccg gcagcatcga gtactggcca gaccacagc gggggatcaa ggaagcctac 360
 naggtcctga gatttggtgg gctagcttgt gtgatcgcc cggcttacc gaccttctgg 420

ct

422

<210> 17100

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H6

<400> 17100

agcagctcag agcacgcgca gccgcctcgc ctgcgctgga gctcacgcag ccgcctcgcc 60
tggagctcgc gcagccgcct ctatcctcgc ctggagctcg cgctaggggt cctctcgag 120
ccgccgctgt tgaggtgcta cttgcaaaag,cgtgtactga acagctcaa aggccctgct 180
atatgtgcac tgcgtgctca gcctgataag,agagagtatg caatagagat gaagaacagt 240
gtggaaagca cagaaaatct tttcattaga gaagcaatgg ctacagaggt ttttaattgga 300
aaaaatgaca ccattgaggg tgtttgact ttcttcagca tggactttat gcaccatctg 360
ttgtacttag caccagaaca ttcattgagt tttctggggg caagctgct 409

<210> 17101

<211> 147

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H7

<400> 17101

gtagtatgac agaatcatgt ggcacttgct gcattgattg aactgggttca tatctgttgg 60
ggctctgggg cttgatgttt gcttgatata gtgttgccgcg tttatgggtca ttgcttacct 120
ttcaatgttg gatttatggg ctgcgtt 147

<210> 17102

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H8

<400> 17102

cctccgcttc catcggttc gacgacttca cctatggaat ctgtcgacaa tccacgacga 60

cgaggcaaac tgctttggac gcaacgtcaa aggggccac gctcgcaggg cgctcagggt 120
 ttacatgcc cagatccatc aagaacctca cccacaaaa attttactg ctcggtgact 180
 ctccg 185

<210> 17103

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H9

<400> 17103

ctcgcgggtc gacacaagcc tctaaattaa gtacgaagga tgacacacct gagcctcttt 60
 gccaggatcat gcttcgtgtt ggtgaccttg agcggttctat caagttttat gagaaggccc 120
 taaggatgaa gctcctaagg aagaaggatg tacctgatta caagtatacc attgccatgt 180
 tgggctatgc tgatgaggac aagacaactg ttctggagct gacgtacaac tatggagtca 240
 cagaatacag caagggaat gcatatgctc acgttgccat tggcaccaat gatgtgtaca 300
 agagcgccga cgcggttgat ctgacgacca aagaactacg tggcaagatt ttgcggcaac 360
 catggcctct acctgggatc aactactaaga tcgcctcttt tgttgatcca ga 412

<210> 17104

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-A3

<400> 17104

cccacgcctc cgtttatgaa tgatacatc ctctccaaact ttcttacgga agctgggatt 60
 agcatcaaga gacaccagac ccgtataagt gcaagagctc agcgtgagat tgcaagagag 120
 atcaggaccg cacgtgcgtt taggttaatg ccttttacia caatgggtat aagcacactc 180
 atttttggca aaagtgcgg 199

<210> 17105

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-A5

<400> 17105

tcccggggcc acatacgcgt ccgaccacgc gtccgcccac gcgtccgcac atacacaggt 60
cacaccgtca cacgcacact gcaccgtgtg cgcgggtact ccccgccatg gccaccacct 120
ccgtcgccgc ctctctcgc cagccccatc tgtcccgccc ccgccccggg aactccagcg 180
ccacctccag aacctcgatc cggggctgcc tcttgcccat ccgatgctcg gctgcctcgt 240
cgtcgcaacc gccggcaagc ggcggtgagg agggagagtc cgggcgcggg cggctgtcga 300
agcagtcttc ctgagaggat agagatgtgg agggggacga ctacctctac cgcctcggga 360
agggcgctga gaacttggac atcaccgctc gcacacggtc c 401

<210> 17106

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-A6

<400> 17106

cacacgcgtc cgcacatcca tccccttccc ttcccttccc tcgtgcgccg ccggctctcc 60
agcgcgccgt ctctgccag atccaggaca tatgccccgc tatgatgatc gctatggcgg 120
cacgcgcttg tatgttgga gattggcccc ccgtactcgt tctcgtgatt tagaatatct 180
ctgcggcaga tatggaagaa tacgagaagt ggagttgaag cgcgactatg catttactga 240
gttcagtga catcgtgatg ccgatgaagc tcggtaccaa ctagatggca cggatgtcga 300
tggaagtcgc attgttggtg agtttgctac aggggtccca cgtgggtccat gtggctcacg 360
tgaatatatg ggaagaggac ctccaccagg cacaggctcg tgtttcaag 409

<210> 17107

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B1

<400> 17107

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ttactgcaga gttaagttgt tcctgagctg agtgtcaacc tcctgtgtgg tgaccagggg 120
catccaagtg cccacctcgc cgcggtcaag caatcacaag cgattcccca gctgtacagt 180
gcatgtttcg tgttctcctt agaacaccta aacgaggtgg tatttgaaga agtctactcc 240
aatgcctgct cctcaagtgg atgaagccat ctaactgggt attggataga gggatctaga 300
accacttcac tgcaacaaag gatataactt tgtgctgctg tgatgggtgtt aagtgccggg 360
gggctcggcc ttcttatata agtatacccc gtctttatct tccta 405

<210> 17108

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B10

<400> 17108

acactcagca gcgatcgcag caccgcggcg agataatgag cagcctgtcc tccggcatct 60
ctgcctcgcc atctgcagcg cccagcaccg ctcggcgccg ccatgacgca gcgccgcagc 120
agctgagggg gaaggcggcg gcgcggccac agctgctgca cgccggccgc cggcgttcga 180
gtgtcgggag gaggccgggc ggcggcgcgg tgggtggtgag ggccgggcct gggccgctgt 240
cggagatcga gccggacctg taggaggacg ccatcgacgt gtaccgcacc aacggcatca 300
gcccggagga cttcgagtac gggaagtatg acggacacca cacctatt 348

<210> 17109

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B11

<400> 17109

cggacgcgtg ggcgaggtga cagaactgcc gttctttgca acgaaagtga ggcttgggcg 60
tgggtggagcc gaggagatcc tgccgcttgg ccctttgaat gatttcgaga gagctggtct 120
ggaagcggca aagaaggaac tgggcgagag cattcagaag ggcacgctt tcatgagcaa 180
gtgaagtggg acggagggag atcgtccctg agtcagattc cggaccatac gtagtaacgt 240
agatgtaagg gtgttgtgat atagtgtcc tacctatact tgtaaagccg cggtaaaaaag 300

aaggctaatt acccttttagc aactgtgacc at

332

<210> 17110

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B3

<400> 17110

tatTTTTTTta tttttttcatt tttaagtgt tcaacactat tatagggtaa cagaaccaag 60
aaacaattgg acatgtaaca gtagatggta cctcttagcc aaatcagttg caaccagata 120
agtgtatttt tgtcgtgaat gtcataaatt atgcaaattc acttggcgaa agagtgtcat 180
actacaattt cacaagaaca acccctaaaa ctcaacacat aataacaact acagagcatt 240
tcgcttttgag taaacaagga aaattctcgt ggtggatatg atatatccag tttactcaat 300
gattttgttg atgacaccag caccaacagt cttaccaccc tcacggatag caaacctcat 360
accctgctca caagcaacag gctggatg 388

<210> 17111

<211> 299

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-002-Q1-E1-B4

<400> 17111

cggacgcgtg ggaaacggac ataccaagaa gttgcaaagc tagacttccc tgcaaaatag 60
tgtaatcttt gaaggtanca gtgaggatac aagtgtcaaa ggcttctgga aattgtgagg 120
tactttggta tgccaatact cttgggacta gttggcccaa atttctcgag tagcatctag 180
acatatacca aatatgtatg tccatgtgta acttcttaac atagatgata gcgactctaa 240
ctataagagt aactatggct gcggacttcc ccaggatctt gttttatcat ccttttagac 299

<210> 17112

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B5

<400> 17112

aacacgcgtc cgatgtgggg aacgaccatg gaaagcgaga catcagcaag caaccagaac 60
cagcaggcga ggcggatcaa atatgcagag catggagaga gatatagcta gagcctagag 120
cgagcaccag caaaccaaac aagcagacca cttctccac ccggccggcc ttcgtcttcc 180
tccgatcccc aggccccagc cactccccgt acaagccaaa gagaccagta ggtaggcagg 240
cagttcatcg tcgatcgagc aagatgtcgg actggggccc cgtggtgatc gggctggtgc 300
tgttcgtgct gctctcgccg gggctgctcg tccagctccc cgcccgccac cacttggtgg 360
agttcggcaa cctgaagacc agcgccgtct ccatcgctgt cc 402

<210> 17113

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B6

<400> 17113

aaagtcaact ttcacgtcta tgattgacaa gtctgaaaag attcatacat taagtgatag 60
aagttgtgtg ctaaacaact gatgcatttt cttcattgga aaattaatta ccattccttg 120
ttacctgatt tattcaaaca agttttctga tgctt 155

<210> 17114

<211> 170

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B7

<400> 17114

ggagcttctc ccgcggcggc ggcgtccatc acggtaggtc gttgcgtgcg ttcgtcagtc 60
agaatttcag aaccgagttc aaacgaaatg accgagggat ggctgtgaga ttaagatccc 120
tcgatggcga cgcgggcgcg ggagaagctc cgagagcggc tggtgaagga 170

<210> 17115

<211> 105

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B8

<400> 17115

ggaaatggaa gctctgctgt actttaagaa acttgatgaa acctttgtat aactcaactg 60
tacctctatc tatcccttgt gtgtatttga gaacgatttc agagc 105

<210> 17116

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-B9

<400> 17116

cccacgcgtc cgcccacgcg tccgcccacg cgtccgttgg tcttctctct cggatcgcgg 60
ttgggggggtt gcggaatggg agcaaaggcg gaggagtgtg aggtgccgcc gctggctgcg 120
aacgcggagg aggcagcttc caccaatcag tgcaccctca tcttcaaagg ctgttccaac 180
agcatggaaa aagtctacgc catcagcagt cctagtaaga aaagaaaatc acagtatgag 240
ctgagtgatc caaagttgct accacttaaa tgcaagtttc gcaaacgggt atattgccag 300
gatgatgagt ctgcaaccac agaaagttta ggatatgatg gtagtttcat gaacaagacc 360
tctgggacgg acatggtcag cataacctga agaattggac tctttgtgag aacac 415

<210> 17117

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C1

<400> 17117

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actccttcga cccaaaggca aaggtgtttc aagtgaaaaa ggggagtga ttttcggata 120
tccacatgga gagcgtcgtg aagaacatca tcctacaaga aggtgcggag aggccaaaag 180
tcggcctgat ggtgatgcct ggtttcctga tcgggaccag cgtcatacag tcccgtgtgt 240
acctttcaga tgccaagtg gctgactgac tgaagattgc acaaggagct tgaggggggtg 300

cctttgctcc ttgggagagc taccagcagc ataagtttat ggtggactgt tgtcctgtat 360
gtaatgcgtg agacctgttg cttcaatgcc gtgccacgtg 400

<210> 17118
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C10

<400> 17118

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atctaaaggc caggttgcag aatggagaga aactgatca ccttaacct ctgcttgagt 120
gcacacgctt caagatcgtc ccggagggtt cactacatcc ctcttccgc ctctgctgct 180
gcacacaact ccagctacag gaagaagagt gccccgtctc tgccgccgtc ggccgccgca 240
tctgccactg ttgtcaccgc cctccgtcc actgacaatg tccagtccac tgctccgaaa 300
cagaccgggc gacaggagct ggaagatctc gtggccgccca agaccagcac ttcaagaact 360
gcacgtgcgc cgagccaggc tcgggctcgg gctcgggctg agcctcgccg ccggcctgcc 420
ccggc 425

<210> 17119
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C11

<400> 17119

ccgacagcgc gactgtcgtg caggccaccg ccgaggatgg tgatgacgac acctgtccga 60
gcagggatct gcttgtcgac gacattggtg ggctcatcag ctggagcagg agtccggcgg 120
caccgcctc agcggctgcg gccacgtgca gcttccgggc gtcgccggcg ttgtccgtgc 180
agcaggacga gatcacggac gctgccatgc tgctgatgac gctgtcctgc gggcttgtcc 240
ggagctgata gcctgatcca cgatctgcta cctctacgaa ggacgaccca gcgcaccgta 300
ggcttttccc agctagcagc tagcttgtgc ccttgactgt tagctagcgt tactgttact 360
gctgttacca tcgtcgtcta acgtaatacc tgtagtgctt ttgttt 406

<210> 17120
<211> 103
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C2

<400> 17120

aagtgtgat ccgtgatgc caatgtaaat ataagtgtta ggtaatgcaa atattagcat 60
gacagtgcatt attcttgtaa atgggaattt accatgttat tgg 103

<210> 17121
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C3

<400> 17121

gtgagtgcaa gtgtggatcc tgtgcaacga ctgcagcgcg acctcgagcg tgcggttcca 60
cgtgctgggg cacaagtgcc ccgctgcag ctctacaac acccgggaga cgacggctgc 120
gtgccccagg atctgatgcg aaccacaggc catgtcaca aatgccaggg agatgccgtc 180
caacgatcat ctgtctgcag gacgttgctg cgcttaaggt taaacgctag cgcgagacca 240
ggcctggtag tccagtcctg agtttggggc tggagcattt gtaacgttcc ggtaaaatgt 300
gatgcgtcca tgagtgtgt ccaggcagtg agcacacctg tggctccggg ccggctcaag 360
gtccctaagc acgctgcaag attaggcggg ctactcaggt tta 403

<210> 17122
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C4

<400> 17122

cggacgcgtg gggcacaaga tatggaagta ctttatgtgg aaacaaacac tttcagacta 60
gcatcgaca tttactgggc attatgggcc cttattcagg caaaggatc cccaattgac 120
tttgactatc ttggatactt cttcttgcgg tatggtgagt acaagaaaca aaggagatcc 180

tgcttctcct tggcacaaaag ctttctctcc gagctaaaaa atggctagag cctgagaatc 240
 tgttcacgag tttatactgg tgtacgcatg ctccgagcgg gtacgcgttg tgatcatcgg 300
 ctgctacca gaaactctat tgtagcgggt gtagcagatc ttcattgttg tatctgatgt 360
 taggttcgtc atttgctaag gactatcttg ggtactctac tattgagctt aatccat 417

<210> 17123

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C5

<400> 17123

aacagagaga ttactacgat ccaacagttc tagagcaaga gagaggaaga cacaccgcag 60
 agtttagcagg ctaataactt gcaggagcag caggaatggc ggcgacgcgt cgcctctctt 120
 gctttctcct cgccgtgctt ctggcaggag tggccgctgc caccgccttc gacgaagcgg 180
 ctgctgccgg ctccgggctt ggccacggcg cgcgtttcgc gcgcaagcat ggacgtgctg 240
 ccgctgagat gccccagccg gagccacaac ctaaaactaa gccggagccc catatgcagc 300
 cactgcccc gccagaacct aaaccgaaac ctatgccaca tccagagcca aagcctgaac 360
 ctcaaccaa gcccaaccct gaacctcaac caatgcccc 400

<210> 17124

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C6

<400> 17124

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 ttcattgtga accagagccg gtacacgctg gaccggctgc tggggaagat gtcgtgcccg 120
 ctgctgctgc tgtggggcga cctggacccg tgggtcggcc cggccaaggc cgcgcggatc 180
 caggagttct acgccgacac cgccgtcgtg cacctgcagg ccggccactg cccgcacgac 240
 gaggcgccgg agcaggccaa ccgcgcgctg ctcgagtggc tcgcgccctt cgacgcccg 300
 gctaagtcgg ccgagcccag cctacagacc gtctgatgga tcgagcgcaa ggggcttagc 360

gtatgctagt caaagaatac aatttggggg cctat

395

<210> 17125

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C7

<400> 17125

aaaatcgtca ttttgctgat tagatactta aatatgatgg atttgccaac tttctttatc 60
cttgtgatga aaacggctga accaccagca gccttgccac ttgtgacatt aacaagtaac 120
ttgcactacc tgacttgtga ctagccatat catatctgat ttcttaagct catcatgttt 180
acacatgttt tcttgtatat actagttttg tcatttgatt ctagtaagaa gtgattttct 240
aaagctgttg aagtatcata agcatataat tatgatgagt ttgaagtgat attttatttt 300
catgtatctc atttttgcat aaacatttat gtggtattat ccagggtcaa gattgaagca 360
agatacaaga gcatggcaga actaagggtga tgtttcttgt tgtagactcc t 411

<210> 17126

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-C8

<400> 17126

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ctgcctcaca gagagttgat gttaatgtta tgtatgaatc agaagattca aaccgacaga 120
aaggcaacat taggtccatg aactagttg gaaccagtgg accaaaaata atttcttctg 180
tcagtgcgga agaaagcact actactccag cagatatctc tgaaacagag aatgtatcct 240
ctgatttgcc tccagtagt ttaaggaaac acaagatttc aaaacatgga cctaggtaca 300
gggagcattc tcctggcaaa aggcagaagg ttttcacttc tgacatttct tttgaaggca 360
atataatgaa taaactttcc attccggaga ttcgtgacac a 401

<210> 17127

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-002-Q1-E1-C9

<400> 17127

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aagcttaacg tccttagtgt ccatttgaca agctcaaagt cattggtcgg tatcacaggg 120
gttatatcag agattcatca ggaaaggaag ggccgagatg tatatatact gggttccgca 180
aatgttgga aatctgcatt tatcagtgc atgctaagaa caatggcgta caaggacccg 240
gtggcagcgg cagctcaaaa atacaagcca atacagtctg ctgttcctgg aacaaccctt 300
gggcctattc aaattgaagc atttttaagc ggagggaaat tgtatgatac acctggagtc 360
caccttcacc atangcaagc agcagttatc catgctgatg atctgccttc tcttggcaca 420
caaagtc 427

<210> 17128

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D10

<400> 17128

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atctttcctt ttggcccctg ttaccttctt tacagaaggt gtcaaaatta ctctacatt 120
tttgcaatct gctggcttga atgtaaacca agtccttaca aggtgtcttt tcgctggact 180
gtgtttccat gcataccaac aggtgtctta catgattttg gcgatgggtg ctctgtcac 240
tcattctgtg ggcaactgtg ttaaactgtg tgtggtcatt gtaacatcag tgctgttctt 300
caggacacct gtttctccta tcaactctct cgggtactgcg attgcacgtg ccggagtctt 360
c 361

<210> 17129

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D11

<400> 17129

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gtcattcatt atcttctgga gcaaggtctt cttgatgggtg attgcatgac tgttactgca 120
aaaactctag ctgagaatgc caaaattttc cctcctttgt ctgaagggca gcaaataatt 180
cgaccacttg acaatcctat caaaccaact ggccatattc aaatacttta tggcaatctt 240
gcaccagaag gttctgtagc aaaaataact ggcaaagagg gactatactt ctcaggtcct 300
gcattagttt ttgaggggtga agagtccatg attacagcta tctcagaaaa cccagcaaatt 360
ttcaaggga 369

<210> 17130

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D4

<400> 17130

cacgctcgtc ctctcctct cctcctggac agcagagcac agcacaacac accgagaaaag 60
aacaagcagc cgccaccgga gtcggaacc accatcagca gcagcacacc cggtaaacct 120
tccacacgcg cacacacaca cacacatggc gtcgcagcag aggcaacagc aggcgggagc 180
ggcggcgggc tctctcgccg tgggcttcga ggactacctg ccggtgatgg cggagcggct 240
gggcgaggac gggctgatgc gggagctggc gagcgggttc cggctgctga tggaccggc 300
gcgcgggctc atcaccttcg acagcctccg gcgcaacgcg ccgctgctgg gcctgggcgg 360
catgtcggac gccgacctcc gcgggatgct cg 392

<210> 17131

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D5

<400> 17131

tattgacct gaccggtgta cttgttactt gtttctattg taagccatct attgtgatct 60
tgtcatgagg ttctagtatt ttcgcaacgg aaaaagagt tgtagagtac tacctagatt 120

cgaaaggtct tgatgtttgc caaattgatg gtagtagtgt taaatcggaa tacaggagga 180
 ggcaagtcaa atgcagttgt ttgtgacagt atgttactat tttactttac aatatcttca 240
 tgagaaaaag atgaaccctg tttggctgta tacttttaggc ttttaatgaa tgctcatatt 300
 gttactttca tacatgtttg cgtgaatggg aatttggcat gtgatcggat aacatgtact 360
 cagttgcatc ttaactgcaa attgtttaag gcacatttta gattgcaagt tctg 414

<210> 17132

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D7

<400> 17132

aaacacacat ccagttgttg aatgggtatac ttaagttaaa ataaaaaaaa aatcacaaaa 60
 tcaaaaaaaaa aaatacaacc acaaccaaaa acataaataa aataaatcaa caaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaagggcccc cccctaaaaa attccaacct tactttacct 180
 tcaattcaaa t 191

<210> 17133

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-D9

<400> 17133

caatggtggc gctgctccag ttgctgcttc cgccccagct gggggtgctg cagctgctgc 60
 tgccccctgct gcagaggaga agaaggaaga gcccaaggag gagtctgatg acgacatggg 120
 cttcagcctg ttcgactgag accctcgcta ccagccatt agcaaattcg cttatgctgt 180
 ccaagactta tcttacgtta tgtctgtagg cttttgttat tacaagtact caagttttga 240
 gtttttgaga tgtggctatg acaatgtgat gaagaaccct aaaccatcgt attagagtga 300
 aacttgtttc tatatagagt tccaagtttc ttgaacctca aacttgctct ggctgatgct 360
 ctgatgtttt cagtcggtgc cttttaatcg aagtcaaccg attttcgaat tgtttgctg 419

<210> 17134
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E1

<400> 17134

cagggcggtca tccctattca catgcagttc tctgacgacg cagaagaaac tttctccaga 60
gcaattagca gcttgctgaa agcacaatat gtgaagaagg gagactacat cactcttggt 120
cagagcggag tgacttcaat ctggagagag gaatccactc accacatcca agtgaggaaa 180
gttcaggtct gatgtgccgg tgggaattgg tegtctgaga aattttgata gcgccgcctg 240
atgtgttatc atcattatat gtgtaatttt actgttttac cagcagattt ctacgtcgag 300
ttatatgttg tgtcgaattc acgtgtaggc tctgaatctt gaatgtgttc gttcattttc 360
ggctgtttca cactgaagtg gttaaagctc 390

<210> 17135
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E10

<400> 17135

gttaggatgt aatgggtctag ccatgccagt ggaagttgtg cagttctgct ggaagtacaa 60
ccttgtaaga ttgcaggaac tgtttaagga ggaaggagtc gaggcaaagc taaggtttga 120
aggcgacaag ccctatgtta ctgacaactc aaactacatc gtcgatttat acttcaagac 180
gccaatcaag gatgcgttgg cagcaggaca ggaaattgca gctctggaag gagttgttga 240
ccatgggttg ttcttgaaca tggcgagttc agtgatcatt gctggaacgg acggtgtcag 300
tgtcaaaacg aagtgagttt ttgagttgct ttgttgtttg tgttgagttt tacaatttaa 360
tgtacaagct attggggtaa aagcagctga taagatgcct caataaacgt gttcccc 417

<210> 17136
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E11

<400> 17136

gaagacactc ccactagtta gttatgtgca gggccatcct gaaatagtta gccaaacttg 60
cgatcttatt gggattactt ctatcatgga ggttttgatt cgcttaatcg gtgcagatga 120
aactatgtat tcaagctatg cagattctat gcaatgggta gatgacatac aagtccttga 180
gatgattgtt gacaagttca gcacatcaga ttctcttgag gttcatgcaa atgctgctga 240
aatcctttgt gcagtaacta gatatgcccc tccaacactt gctgcaaaga ttctgagtc 300
aagctttgtg gggagattag ttcaacatgc ttttgaagat tcaaggccaa aatccgtgct 360
ggtcactca 370

<210> 17137

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E5

<400> 17137

aacctccgag ctctccttct atcagcgaaa ggtgttccgc gtcgctgagc acgctgggg 60
cacgttcgcc agcctgccga cgtcgcgtcc tctcgcgtt cctctgcaat gagtgcac 120
accactcctt catctacgag acgccgtcc cgtctccag gtcgctgac aagctgcagg 180
cgtggctaga cccggtgaac ttgctgtcgg gaaagtccag ctactgtggt ttctgtggcg 240
agcctctgca gttcgtctc cagggtttt ctttgtgtgc aatgaagttg ccacagtcga 300
ctgcttattg tttggatct gacttggcca cagttaggct tgggtgtgtt tagatttatg 360
caccaactga agataatgta gcagccttc accgaacgcg gttc 404

<210> 17138

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E6

<400> 17138

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agacaatgat tatatgagca atgtgcattc taaaagaatc ctgaactaaa aacgggtcag 120

gacatctctc tcaggctggt ggccatcagg atcaggctgc atccggtagc cgccgtcgcc 180
gtcattctgg tcgttctggt cgttcatatc aggaagcgaa tcattaactgg cagccccag 240
cttttccttt agggaagcgt tctgtgaaag taggtgttcg ttctcatttc tgatccgctc 300
gagctcggcg ctatgcgaag aattatccga cctcatagcc tcagcacgtt 350

<210> 17139

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-E7

<400> 17139

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ttctcggcgt tgattcctcc tcttcagcc tcttcttctt ctggctctc ccccttctc 120
acgatgaagc gtgtgtctc tgttccgtcg ttgtccaggt ggacaatccg atacaagcaa 180
ttgggacatg cattatatca gagaagccac gttctggcct ttgctagtgc agatgcatca 240
caaggcaaaa gaagctcagg tgagaatgtt gtgatggttg atccactgga agctaagcgt 300
ctagctgcta aacaaatgca agaaattagg gccaaagaaa agctgaaggt gcattgctgc 360
tgtattggag tgtatcattc cttagattaa atcaatctta tatgctaaag gaagaaaa 418

<210> 17140

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-002-Q1-E1-F4

<400> 17140

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cgcgctcagg gtcacggagg cgaagatgat cgacgtggtg ctgaacgacc gcctggggaa 120
gaaggtgctg gtgaagtgca acgaggacga caccatcggc gacctcaaga agctggtggc 180
ggcgcagacg gggacgcgcc ccgagaagat ccgcatccag aagtgggtaca acatctacaa 240
cgaccacatc acgctcaagg actacgagat ccacgacggg atggggctcc gagctctact 300

acaactacgc gccctgacnc caaccgtgcc ctgatgtaag gttaatccga attctgaagt 360
catgggtgcg cttccagtcg cagcgtcttt agctaacaag ctcgcataca tata 414

<210> 17141
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-F5

<400> 17141

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gctgatcacc gctggcgtga tctgcaacaa ggatcacacc acctacatac catgcagcta 120
gagaggagga tcggccggag ctatgtatac gcatcttcga tgatatctac ttgaagaagt 180
aggggaggtc gagcacgtag aggagaaagt atgccagag cagccggag atgccgccga 240
agaagaatcc cccggtgaac ttggcccagc cgtcggacgt ctgcagcttg tcggcctcct 300
tcttctgcc ggtgagcgtg agcgagggcg cctgggacgg gtccccctcg ttgaaggagg 360
cgacgccgta catggtgagg cagacgctga ggatggcgac gag 403

<210> 17142
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-F6

<400> 17142

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gggtcgcta tcttccccgg tggcctctcc gcgcgccga cggggagcgg gacaaccgcg 120
tgcaggagct gagggtgccc gattcttggc tgacgcctgc aggagcaacg cacgaatctg 180
aatggctgag ggagacactg cgcaagtggc tcgacgacga gtactgcccg gagccggcca 240
acgtggacat cagcagcacc gccgcgcggt cgtatcgca atcgctgata gcgcggcagt 300
ctgatctggg agagatcttg ctgaggatgg tgggcgacct ggacaagctg tcgtacatgg 360
agagc 365

<210> 17143

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-002-Q1-E1-F7

 <400> 17143

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 ctctgttcgcc gacagggagg acgccgatct ggccgacgaa gtggtcggg agcttggcgg 120
 gtggttcggc gtcggagagg tcgcgtcgtg gacacacttg tcgacgtatc gcatcggggtt 180
 cgcgagccg gaccagacgc cgccacgac accggcgggg agggaccga gagttggtga 240
 cggattgtac gtctgcgtg accactgggtg ctccgccacg ttcgatggcg cgctggtgtc 300
 cggaaggagg gcggccgatg ctctggccaa tgacacggga ctgtgaactc cctatcatgg 360
 ggctgtgttt gagttggtcc gtgctgcact gcagagtga g 401

<210> 17144
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-002-Q1-E1-F8

 <400> 17144

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 tgttccagct cctatggtgg cgctcggttt ccagccgtgc cgtgatttct tgctcggatt 120
 gcgctcgact tccagcgccg tggctcgtc aagatccctg tcgagctcgt ccctgcgcgc 180
 acgtttttct gcacgcagct tctcaaatac gtgctcggat ctgctcagcc gccgttctct 240
 aacctgtgtc tcggtcggcg tcgtggagtt ttggttgatc ggctcgtcgt tgacctcgcc 300
 gatgtcgtcg aaccgtcgaa ctttgttctt ccctgctcga tctcgtcgaa ccacgaatcc 360
 cggacttttag acaaaaataa gcaaagtccc tgtgcacgc ttatcaagta ctccgtcgaa 420
 gactt 425

<210> 17145
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-F9

<400> 17145

tgccattct acaagtttgg ttacatgtca gcaaattggtg ccattgccga ggctattaag 60
ggcgagaact ttgttcacat aattgatttc caaattgctc aggggagcca gtgggttact 120
ctgctacagg cccttgctgc aagacctggg gggccaccat acattagaat cactggtata 180
gatgactcaa attctgctta tgccagagga ggcgggcttg atatagttgg gaggacgttg 240
tgtgatgttg ctaattcatg tgggtcttct tttgagttca atgccgttcc agctgctagc 300
catgaggttg agcttcagca tcttgctata agacatgggg agattattgc tgtgaatttt 360
gcctatcagc tacatcatgt tc 382

<210> 17146

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G1

<400> 17146

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gcgggacagg agcatgggga tgagcaggcg caagatgact gcaagtggcg ccggatcccc 120
acattcggcg actggaacct gcgggacgac atgccogtca cctaatactt gcaagcaggg 180
acttcttcat cgttgtgctg ccggcagaga acgacgacga cgaggatctg ttcaacgtgc 240
cccagtgttc ctgccaagcc ctacagctac aagaacgttt tgggtggatt tgtaggttgg 300
tcatgtgaat tgcacaaac agggagtcac ggacgatatt gaagttgtgg ctgtggatga 360
cccttttgtt gatgccaagt ac 382

<210> 17147

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G10

<400> 17147

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cccactgcc ccggtcgccg tcgggcaagc gccgtccaac ctgtgcgtca ccgcctccgc 120
 cttcagtttc gcctccagca ggggcgccgc gtgggggtatt cggttcgtcg tcgaggagag 180
 agagtcactt ctgccgaggg agcagggatg gagccggtcg tggggatcgt ggtgtcaaac 240
 aagatgcaga agtcggtggt ggttgcgggtg gaccgcctct tccactataa gatgtacaac 300
 cgctatgtca agcgcacctc taagttcatg gcacacgacg acgctgactc ctgcaacatt 360
 ggcgaccggg ttgtatggtg gggattg 387

<210> 17148

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G11

<400> 17148

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 acgccttcta ccacttctag caaaagtatg tctgatgagc agtgctggca attttatgaa 120
 aaatatgtat gtaaagagaa ctctgaaat gagcaaagac atacacattt actctagtgc 180
 tetgaaggcg aactaactt ggcagaatat gattacgatt caggagtgtc gcgaggcctg 240
 tggagggtcaa ggtctgaaga ctgagaaccg cataggaatt ttcaaactcg aatttgatgt 300
 ccagtctaca tttgaggggtg ataacaatgt gctaatacag caggtaagca aagcgcttta 360
 tgctgaattt ttgggtgcac aaaagaagca gcagccattc aaaggattgg gtttggga 418

<210> 17149

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G12

<400> 17149

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 gcccgggatc atgttctct cggcgggca gtcggagggtg gaggcgacgc agaacctcaa 120
 cgccatgaac caggggcca acccggtgca cgtgtccttc tctacgagc gggcgctgca 180
 gaacacctgc ctcaagacct gggcgggca gccggacaag gtcaaggcgg cgcaggacgc 240

gctgctgctg cgcgccaagg ccaactccct ggcgagctc ggcaagtaca cctccgacgg 300
 cgaggccgcc gaggccaaag agggaatggt cgtcaagaac tacagctact aattaatcgc 360
 ccggccatca cccggggata ccgcccgc tccgagagat a 401

<210> 17150

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G2

<400> 17150

acgcctccgc acttctgtca actccgttca aacttctggc tgctgggtccg cttggaatgg 60
 ccactgtcac tgctgggatg tactgtgctg gcagatacat tactgacata cgagtaagga 120
 aggacgtagc aaaagttgaa gtggagaaat tatcatcgca ccccggtttc caccttggtg 180
 aacatgaaga atcagtcaac aagcgatcag aaaaaccaa gaccttgctc cctatgaaga 240
 ggaaaccaca aacgtgactg cgaagcacag cttacgacga tgaacttctc ttcccttcaa 300
 ttggtgtcga attgtggata acttgggata tgataataag atcggatatag atatgtgcct 360
 tgccaatgta tcataagtgg attaggcgca cccctcacc 399

<210> 17151

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G6

<400> 17151

ctaaaatgag tcgtattagc ttgagcagaa cactgagaga tcaagattat tagcttttgc 60
 tggagctacg gggattgcc aagattctga ggagtgatca tctcgcaagg attgcccagt 120
 tgggggtatt tccttgtaaa 140

<210> 17152

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G7

<400> 17152

cccacgcgtc cgacagaaca tcgtcctcag cggctacggg aaggccgggc ggttggacga 60
catggagcga gtgctctccg acatgctcga cagcgtgtca tgcaaaccgg acgtttggac 120
catgaacatc atcctcagcc tcttcgggaa cgggggcgag gttgaactga tggagagatg 180
gtacgagaag ttccgaggct acgggggtcga gccggagacc cgcacgctga acatcctgat 240
tggcgcttac gggaagcggc ggatgtatga caagatgtcc gcagtcatgg agcacatgcg 300
caagctcgcg ttcccgtgga cgaccgcgac gtacaacaac gtgatcgaag catttgctga 360
ggccggcgac gccgggaaca tggagcac 388

<210> 17153

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H1

<400> 17153

atctacttca cctgaaccca tggagagtga caacggcaaa attgccgcgg ctactggcga 60
cgacttggtta gaacagctag aagccctgaa gcaacgcttc atggaactca ctgcaagcta 120
tggcgtgccg cagctcgaga ggctgtattc caagataatg aaaggagcaa tagagttgac 180
aagtaaagaa agcaacgagg atcataggcg gttagtagtt aggtatttgt ggacattcgt 240
tgagaacagc aacaattttt aacctggcgc caataagatt cttgttttcc ttgtacatcc 300
tctttggaac gaaacaatag tagccgttca tcttgggagt tgtccccgtt ccatgccttg 360
tgacaaatct tccaaaatgc tctactgttc 390

<210> 17154

<211> 134

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H12

<400> 17154

aacctccctc tcagctaattg tacataacca tgcattgggt ttcgttttgt gcgcttactt 60
ctggcttgcc agcgtatggt tcaatgtgga aacacatgta ttagtacgag aactaataga 120

cttataatta atat

134

<210> 17155

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H3

<400> 17155

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ctgatttcgg ctctctcccc tgtagcaaat cttgttctga agagcgtgcc ccggggggct 120
gcaactactt gttacttggc attgcaccct aatgtcaag gtgtatctgg taaatacttc 180
gctgattgca atgaatcaac accgactgct gtcgcaagag actcagagct ggcgaagagg 240
ctatggtcgt tcagcgaaga acttgtcaag atctatgctg atatgtcaca gacgacacag 300
gcaagcgaag aggaggaaac cacggttacg agagacgttt tccaagacaa gtagcgtaat 360
atatgttgcc gcgttttcta ctttttgt 388

<210> 17156

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H4

<400> 17156

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agagcatcgg aataccgacc cgtgtccaga ctgccttcgg tatgtcagaa gttgcagaac 120
catacatagc ccgaagagct gtcagacatt tagagaaagg aagagttgtc atatttgctg 180
ctggaacagg gaaccattc ttacgactg atacagctgc tgctctccgt tgtgccgaaa 240
tcaatgcaga ggtagtgtg aaagcaacaa atgttgatgg tgtgtatgat gcggacccca 300
ggcagaatcc aaatgccgc cttctggaga ctgtgagcta tcatgaagtt acgacaagag 360
atctctcagt aatggatatg actgctatta cactatgcc aaaaaaac attccc 416

<210> 17157

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H5

<400> 17157

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cgtgaaggag agtatgtctt tgggtgttgc cacaatcttg catccttcaa tgacaccttc 120

attcatatca ctgatttgtc tgggagggaa actctgggtc ggatgaccgg taccatccta 180

aaaccttggc tgtgcacgac ctaggtggca gctgtatatg gttttaactg agatgtgcta 240

aacctgaacc ctgtatgtgg catgaagggtg aatgctgacc gtgacgagtc gtcaccttac 300

gctgctatgc ttgctgtca agatgtcgca cagcgtgca tggagcttgg cattactgca 360

ctgcacatta agcttcgtgc caccggaagc aacaagacca aga 403

<210> 17158

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H6

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tcgtcgtca cctcgaccaa cacatctagc gatgacaact agtaggcata cgatgcaagc 120

actggctttg tgttcaattc gacgggcctc cagatcatcg aagccgagct caggcatctc 180

agcacagcag ctggaagaca gcggtcaact gcagctgacg catacctgat gtcgaccaat 240

ttcgtgtcga tgtgggctat tgaacttcat tgctcc 276

<210> 17159

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H7

<400> 17159

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gattgaagct ggggagcggg ttactgttta tgttggtgtg ccaatgtggc ctgaggggtg 240
tccagaaagc gcttctgttc aggcaatcct tgactggcag aggagaacga tggagatgat 300
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<210> 17160

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H8

<400> 17160

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gcacgtgccc gaagaggaag cccaggcagc aatcgtgctg ccgccacagg acgctgcaaa 180
tgatgcaacg taggtggacg tcacagtctc cgacacagca gcctttggct gagagcatga 240
tcataatcct cgagtgcagc aggcagtagc tgagcagcac caaacgacac gtccgcatct 300
actcggcgta catcgatcca gtgacgaaca ctttcaacca gatgcatatg gccaagctga 360
tgc 363

<210> 17161

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H9

<400> 17161

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cccgaccatc gacggcggcg tggagtcgtt cccgttcaag gccggcaagt accagatgaa 120
gaagctgtgc ctggagccga cgtccttcac cgtcaaggcg gagggcatcg ccaagaacgc 180
cccgcccagag ttccagaaga ccaagctcat gaccgcctc acgtacacgc tggacgagat 240
cgagggcccc ctcgaggtcg gctccgacgg cacgctcaag ttcgaggaga aggacggcat 300
cgactacgcc gccgtcaccg tgcagctccc ggggggcgag cgcgtgccgt tcctcttcac 360

cgtaagcag ctgctgccca ccgggaagcc cgagagcttc ggcggggcct tcctcgtg 418

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<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A1

<400> 17162

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cctttatttg ctgttcaagt cccgtgtaata accgagaacg ttaattgtaa cagtgtgttt 180
tttatatgat taaaagagaa gtgacagaaa cagggaaata aagaggaaga actggaagag 240
aagagaaggt agagggccgg aaacaagtga gaggaagaga aacaggaagg agacaaaaaa 300
gaaggggggg gcgccctaag ggt 323

<210> 17163

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A12

<400> 17163

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caagagaaga aggtgaaatt tctgaatcgg aggcagagac caggtatcgt caggacaaag 120
aggagaagtg gcttgaatgg tgctctgaag ttttagatga ggagcaggaa actttgaagc 180
gcctggatag gctgcagaat acaagtgtaa acctcccaa ggaaaagggt ctttcaagga 240
ttcgcaagta tctcctgata attggggaca aaattggaga agttgtccgg caacacagtg 300
aatcgtatag gcaagtcccg catggtcatg ag 332

<210> 17164

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A3

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gcgcggcaag ggcggaagg gtctgggcaa gggcggcgcg aagcgccacc ggaaggtgct 120

ccgcgacaac atccagggca tcaccaagcc ggcgatccgg aggctggcta ggaaggggtg 180

cgtgaagcgc atctcggggc tcattctacga ggagaccgc gccgtgctca agatctttct 240

cgagaacgtc atccgcgacg ccgtcaccta caccgagcac gcgcgccgca agaccgtgac 300

cgccatggac gtctgtctaag cgtcaagcg ccaggagcgc accctctaca gtttcggagg 360

ctaagctagg ctctctttca tagtcggga ctggtaagg gacatgtct 409

<210> 17165

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A5

<400> 17165

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ctccccctag gggatcgtcg gagaggaatc gcaaagaggg ccgtctcatc cgagttaagg 120

aagccatgga gcacaaggag gctgggtgcc agggccccga gggaccatc ctctgcatca 180

ataactgtgg cttcttcggc agcgcggcga ccatgaacat gtgctccaag tgccacaagg 240

agatgataac gaagcaggat caggccaagc tggctgcctc ctctatcgac agcatcgtga 300

acggcagcga cgcgctcatg gagccggttg ttgctggcag caacacggta gtagctgttg 360

ccaagttaga gttgcaaaca atgaacgtgc agcagcccgc tgatgttgcc ggaccagcg 420

a 421

<210> 17166

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A6

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ctgccttcat acgtatccaa tatccatagc cgcggcagta cgtgtatgtg gttagctata 120
 cgcgacctca gctcggggcg aagctacaac gccgaccagg cgagaagaag catcgatagt 180
 gtgacgagct aacccaccag cagcaacgta atccaaatcc atggacaacc agccgctgcc 240
 ctactccaca ggccagcccc ctgcccccg aggagccccg gtggcgggca tgccctggcg 300
 ggccggcctc gcagccgtgc cgcagcacca cctgctccag cagcagcagg cccagctgca 360
 ggcgttctgg gcgtaccagc gccaggaggc ggagcgcgcg tccgcgtcgg acttcaag 418

<210> 17167

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A7

<400> 17167

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 aatggagggt tgaatcaaat gagatttggg atatgtgaca tggttgctgt tgctaagatc 180
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 gaatttaagg accttttcaa ctggaggcac ttcatgagt cactgaaaga agacattgat 300
 attgttgaaa cacttcccc tgaatacagt gacattgaac ctttggctaa agctccggta 360
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<210> 17168

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A8

<400> 17168

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 tgcaagggtc tcgactccca cctgcacgtc tggggccacgc cacagcatgc caaggaggag 180
 taccctgact tcccaggcca ggaacccacg ctgcgtggcg acgccgactt cttactcgag 240

tgtatgagtg aagctggagt ggacggggct gttattgttc aacctattaa tcatatgttt 300
gatcattegt tggtaactag tgtgttgaac aaatacccat ccaagttcgt tggttgctgt 360
tcttcgaaat cctgcagacg atgggactgg gattaaacaa ctttgacatc tga 413

<210> 17169

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B10

<400> 17169

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gaagatcctc cgtggtggac tgtctttgat gctgatgaag cagggaattca ggaagtittgc 120
agggttcttg ctcacctcta cagcttgccc aaggcccaat acattccagt atataaagac 180
aacgattcct ttactgttaa gagaatctct gatctacagg cttcaaagga aagtccagca 240
agggctgttg ctacgcataa gggtagccct gtacctcaa gttctagcca ggagaaggat 300
ccagtggcta agactatact gaacaagggt aaagaaaaaa gtgatgacga aggtaaacca 360
ttgcccgtcg aatttgatgg gaaagaaaaa 389

<210> 17170

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B11

<400> 17170

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tcacctcctc tgcgccaagc agcatgaaga tcaacgtcgt cgcgccacct gacaggaact 120
acagtgtctg gatatgaagg tcgatcctaa cgctcgtcga gcactttcca acagaggtag 180
atatcaaagg gggagtagca tggggtctgg cccggcaatt tgtcacagga agtgcggtcca 240
ggtttcgg 248

<210> 17171

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B2

<400> 17171

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ggcgccggcg atggcggtc ccatggtcga cgccgaatac ctgcgccagg tcgacagggc 180
gcgccgccac ctccgcgcc tcattctcaa caaggatgc gcccgatca tgctccgcct 240
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gattagatat gaagaagagt acgactcatg gttcaaagtc tggtttaaag attgctatcg 360
atctccttga gcctatcaaa gcaaagaatc caagataac atatgcagac ctgtatcagc 420
tt 422

<210> 17172

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B5

<400> 17172

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tccccgagg agttcctctc gcaggtegac tacttgctcg gcaagcaggc ctacggcggc 120
aataccgact ccgagggcgg gttcgagacc gacgccgtgg ccaccgcaa cgtgctggag 180
agctccaccc ccgtgggtga cggcaagcag tactacagca tcaccgtgct gaccaggacg 240
gcggaaggcg acgatggcgg caagcaccag ctcatcagcg ccaccgtctc cgacggcaag 300
ctctacatct gtaaggcgca tgccggcgac aagcggtggt tcaagggcgc cagcaacggc 360
gtcgagaatg ccgcccctc cttcagcgtc gcgtgaccga cgtaactatt gtttctttga 420
t 421

<210> 17173

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B6

<400> 17173

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gccgccgacg ccggcgatgc ttccggcagcg tgcggtttct gcctccgct gtgcgtcgca 120
ggtctgccgc cccctattcg gtgccgccag ttgcatctcc tgtgggggcc acggaagcgt 180
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gtcgggaccg ctctaccga cgctccacc caccgagcag gaggtggaga gggtaagct 300
cgagcaggtt atgaggagac tagagaaaac agcagggtat ttcaagaatt tgggtaccct 360
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<210> 17174

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B7

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aatggaaggc atggcactag tttctaccag cccaaaatgc tcagaagaac aagattgaat 180
cagaatgtga ccaatataca tgtaatttc tgtagccaac accaaagtga aatctgcttg 240
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cgccaacacc atagccaaag cactccctg gctttccacg agctccggct gggtcaccag 360
gaactttacg accagaacca agatcactac catagtctcc aaagaccacg ccttcc 416

<210> 17175

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-B9

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 acggcgggcg cgctggggcg cggcggttac gcggtaccag agcaccgcga gcagaaggag 240
 gccactacg agagcaggca gcaggagcac agggtgccgc acgggcacgg gcacgggtac 300
 tcctactact gcgactgaaa cgactgatca tcccatcgat cgagatatgc atgcagaact 360
 ccatatatat ac 372

<210> 17176

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C1

<400> 17176

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 cgccccctga cgtcatcgcc atcaacgaca ccggcggtgt caagcaggcg tcccacctgc 360
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<210> 17177

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C10

<400> 17177

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 gcaagaccgt gggcaagccc aagggtggcg cgtccggcag cccctgggtac ggccccgacc 180

gcgtcaagta cctcggggccc ttctccggcg agcccccgag ctacctcacc ggcgagttcc 240
 ccggcgacta caggtgggag agcgtcgggc tgtccgccga gcccagagacc tttccaaga 300
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<210> 17178

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C11

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<210> 17179

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C12

<400> 17179

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<210> 17180
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C3

<400> 17180

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gatatatggt gaatccgata acgttatatt gttttaaact cgtaacgctc ctttttatct 360
atattttttt gggaaaaaaa aggggtgttt actaaaagag gcgagcaaaa aaaaagggcg 420
gg 422
  
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<210> 17181
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C5

<400> 17181

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tccgacaagc gaagcagagc actggcatga gcatggaccg catggcgcg cgttccgtgt 180
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cgtctctgat cctgacgcag cagtccggcg gcgccttcag ctgcggcag aagtacctgt 360
acggggagtt cagcatccag atgaggctga tcccgggcaa ctccgcgggc accg 414
  
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 <211> 443
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C6

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<210> 17183

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C8

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<210> 17184

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D12

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<210> 17185

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D2

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<210> 17186

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D3

<400> 17186

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aggggtacct gaaggagttc agcgcgggac acgccaccga gcaggagcag cctgcggcgg 120
cagcaggcga cgacgcggcg cccaagccac cggcgccgga ggcgccaag gagccggcgg 180

cggcgcctgc gccggccgcg gaggaaggca gcaagtcgtc ggaaggcttc ggccctcggcg 240
 acgtcatgaa gggcgccgag cagctgggtg gaggggaagca gcagggcggc ggggaggaga 300
 gcgcccggcg ccgtgggctg ttttaagatgg cccagggctt cctcaagtgg atatattgtc 360
 tggccaacgt acgtgtactc gtgtagt 387

<210> 17187

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D4

<400> 17187

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 agcgggtgcca cccggacgtg gccggcgccg ccggcgggcca cgacatggcc gtcgtcctca 120
 acgaggtgta cgcgctgttc tccgaccggc acgcgcgcct ggcttacgac caggagcagg 180
 cgcgccgctc cgagttcgcc ggctacacgg gccgcccgt ctactcctcc tgggtcggcg 240
 ccgagtcgga gcgccggggc gtgttcgtcg acgaggtgcg ctgcgtcggc tgccctcaagt 300
 gcgcgctcca cgcgtcccg accttcgccc tcgagtcggt ctactgccgc gcccgcgccg 360
 tcgcgcagtg ggccgacgac gaggacagga tcgtcgacgc catcaacacc tgccccgtcg 420

<210> 17188

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D5

<400> 17188

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 cacgtgggcg gggacatggt cgcgtccgtg cccgcccggc acgccatcgt catgaagtgg 120
 atcctccacg actggagcga cgcgcactgc gccacgctgc gcaagaactg ctacgacgcg 180
 ctgccgaaa atggcaaggt catcgtcgtc gagtgcgtgc tgccggtcaa cacggaggcc 240
 acccccagtg cccatggcgt ctccacgtc gacaggatca tgctcgcgca caagcccag 300
 cgcaacgagc ggtaccagcg cgagttccgc tagctcgggt agggcgcccg cttcaccggg 360

ttcacggcca ccgacgtgta ggcgaacgcc tgggccagcc gagttcag 408

<210> 17189

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D6

<400> 17189

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cagtgtacgt gtgtcgggtg agatggccac agcttacgct cccatggcga gccagggtgat 120

gaagagcagc ctcgtcgtgc actcgaggcc gaggggcctg tcaggcgctg ctgcgctcac 180

ga 182

<210> 17190

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D7

<400> 17190

cccgggtcga cgcacaactc caaaacagcg tccgggtcatg ggcacgctcg ccatgcacct 60

catcctgtgc tcctcctcgc catctcagca ccgccggcgc cccttg 106

<210> 17191

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E1

<400> 17191

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gcatctcgcc cttgccccgc cctcgatctt cggctcccag tcctcgctgc tgctgctccc 120

gcgccgcgcg tcgccccccc ccgtctccct ctcccaccgc cgcattcatg cggccgctgc 180

gaccaaggaa cccgagctcg gcggcggcgg atcggggggc ggcgacggtg ccggaggag 240

cggcggcggc agcgacccca ggggaggagg gcaggaacga gaccgggagg aagagaagat 300

ggggcagggc ctgtccatgt cgcacaaact caccctcgcc tacgccgcgc tcgtcggagc 360
 tgggtggtgta atgggatata tgaatagtgg gagccagaaa tccttggtctg catgaggcat 420
 atca 424

<210> 17192

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E10

<400> 17192

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 tcgctcgctc gctcgaaaag aaagaagcta gcttttagca tggcgtctct ggcgttcggc 120
 agcaccgtag cggcgccggt ggcggcgaca tcggggagga cgcggccggc gcgccggtcc 180
 gtgctggctg tgccgcccgc tgccagcagg ggcggcccgg cgcggcccaa ggaggagaag 240
 ggctcggcg agaccatctt cggcttcac tcacaagaagg accagctggt ggagacggac 300
 ccgctcctca acaaggtcgg cgcgcgcgcg gccgcgcct cccgcgcaa ga 352

<210> 17193

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E11

<400> 17193

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 cgtgctgaat tcccgatcgc tcgctcgctc gagaagaaag aagctagctt ttagcatggc 120
 gtctctggcg ttcggcagca ccgtagcggc gggcgtgggg gcgacatcgg ggaggacgcg 180
 gccggtgcgc cggtcctgctc tggctcgtgcc gcccgcgtgcg aggaggggcg gcccggcgcc 240
 g 241

<210> 17194

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E12

<400> 17194

aaagacgcgt ggacggacgc gtgggcaatt ttagagcact gagcagagca cacatggact 60
agtattctaa gatgtacggt ggacgtctat ttgactga caaatctaga agtattctac 120
caaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaagaaaaa aaaaaaaca agaaaaggag 180
agaaaacaaa aatgaaaaga caaaaaaaaa aggggggacg cgcgatatct aaaataaggc 240
cgcaaaacca acccagttct acgggtctcc cgcgttgccg ggcaagccgg gaaaagg 297

<210> 17195

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E2

<400> 17195

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acgataataa gtagatcgat ggagtagtga tcgagcaaca cacacgtgac gacgtttgct 120
cttatttact tacacgcacg cacgtgtacg gcgctagggg ccgtatatat atcgagttct 180
gcatgcatat cgcgatcgat gggatgatca gtgcgttcag tcgcagtagt aggagtagcc 240
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ctccttctgc tcgcggggct cgtgggtacg gcgtagccgc gggcgcgag cgccgccgcc 360
gttgctacgc cgggctcgat cttgtgcctc tgcgcgtgcg ccgggggtcgg tcttcgcaag 420
gg 422

<210> 17196

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E3

<400> 17196

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tcctcgccgc cggcagccgc actgccatca cagcgcagca gccatcgctc aggaaaggcg 120

ccgctggcgc aggtttgttc tgcagtcgcg tcatcgtcag caagcgcgcc agggtaacag 180
cgaagctcgg agacggagag ctgaagcctg caggcaagcg gaagttcatc agcaaggaag 240
aggagccaga acagtactgg cagaccgcg gggagaggga gggcgagaat cccatgatga 300
caccctgcc ctacatcatc atcttcggca tgtccacccc ctctgcatc ctcgccatcg 360
ccttcgcca tggctggatc aaggctccctg ttcgatgacc gtgacgcgaa agccagtctg 420
ga 422

<210> 17197

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E4

<400> 17197

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cgctcgtcggc gaagccagcc accggcgga agacgtcgtg gccggagggtg gtcgggctga 120
gcgctgagga agccaagaag gtgattctgg cggacaagcc gaacgccgac atcgtgggtg 180
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cggcaccgcc gggcatgacc acctgctata tgtcactact agtaataaag tataaataac 360
agggaggatg catgctcatc cttgggatca aaaaaaaga aaaaaggcgg ccgct 415

<210> 17198

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E5

<400> 17198

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tggcgccggc gcctctccag tgcttcctca cgagcagcag accggccgta tgcacggcga 120
cgccgccccaa taagcgcgcg aggaggccgt cgaggatctc gtgcagggcg tccggcgatg 180
acaaggacaa ggtcccgtcg tcgggaggga gcgatcttgg ggtcaagcag ctcggaagc 240

tggccatggt cgcgctgggc gccggcgtgc tgggtgctcg ccccgctcgac ggtgccgtgg 300
 cgggcaagtc cggcgggagg gtcggggggc aggcgttccg gtccgcgctc cggtcgtccg 360
 gccctcggat caacaactcg aggaccagca tctacatcaa gccgccggtg gcgccgcc 418

<210> 17199

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E6

<400> 17199

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 cctctcctgg cgcggcgctcg tcgtcggcct cggcctcggt gctcaacggc gccgtggact 120
 ggtggcgcgga ggtcaaggag tcacggctgt gccaggaccg catcttcgag acgctcgccg 180
 tgctctacgg cagcgtctcc gccgtcgcgc tgggtccagtt gatcagaatc gagtgcaggg 240
 ttccagagta tgcgtggagg aggcagaaaag tgttcgatct cgtagccgct ctcgtgaagg 300
 gcgtgaggtc tgccgtg 317

<210> 17200

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E7

<400> 17200

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 tctatggcgt cgacggcggg gtacctggcg cggcggggcg cgcagaagga gcggggtgcgc 120
 ctgctctacc gcacggcgct caaggacaca ctcaactggg ccgtccaccg ccacctcttc 180
 taccaggacg cgtcggatct ccgggacaag ttcgaggcca accgacacgt ggataacctg 240
 gacgtggctc ataggctcat cgacgatgcg gaggctcagt acaggaactt ccagcaccct 300
 gatccctaca ttgttccatg ggcaccaggc ggcactaaat tcacaagaaa cccccctcca 360
 cctcaaggga tccagatcat ctacaatt 388

<210> 17201

<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E8

<400> 17201

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ctggctaacg agcagaccat atggcttttag ttttgtggaa gtgggcgcga tttcgtcatg 120
tcatgcatgt gtttagctcct ggctaacctg caaatgcgtg tgttggtgca ggtttttgtc 180
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aactgcaaat atttgttgca tggaacattg taaatatcag tcaattccca ttctgtttgt 360
tcaaagccga gtgcgttt 378

<210> 17202
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-E9

<400> 17202

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ccccgccctc cgacctcca cgcgcaaata ggcgcctcc atccactagg aggatccccg 120
atgagctatg agaagtgttg atttggatat tcgtggagtg tgcaatggtg gactttgttc 180
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gcctcgatga cccggaacgc ctggctagag aaactgtttt taatgtgaat gaaatcgatg 300
ctctgtatga gctgttcaac aacattagca gtgctgtggg tgatgatggc ttgatta 357

<210> 17203
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F1

<400> 17203

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 caaaggagca gcaggataag gttgtcaaata ttgactttca tgggcagcca gcagaaatca 180
 agcatggtag tgttgttata gcatcaataa ctagctgcac aaacacctca aatcctagt 240
 ttatgcttgg tgctggctct gtagctaaga aagcttgcca gttgggtctt gaggttaaac 300
 catgggtgaa gacaagcctt gccctggat caggagtgtt cacaagtac ttgcttcaga 360
 gtggctcttca agaatacctc aagcagcaag gattccatat cgttggctat ggctgtacca 420
 c 421

<210> 17204
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-003-Q1-E1-F10
 <400> 17204

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 ggtgtatgaa gtctcatagt acactcttgc cgcgggtccga tagagagtcc acttcactta 180
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 ctgaagatct ttccctaacg agacagtatg gcgagttagc tgatcgttac attaggtgat 360
 gatagagccg aatgcagaaa aatgcatggt gggtctttga a 401

<210> 17205
 <211> 357
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-003-Q1-E1-F11
 <400> 17205

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cgtgctacgg atcaagtccc gcgtcggggc caagaagcgc ggcgcgcgca agaagaaggc 180
 cgcgggcgctc gcgtcagcca gcgcggtgac gctcccgccc gtgccgctgc gggagccccg 240
 gtcggcgctc ggcgcgccccg tcgagcgagg cttcaccgag tacagcgagc gggtaaacgg 300
 cgcgcggggc gcggctgggg ctccggcgagg tgctgctcgt ggaggcgggc gccgggc 357

<210> 17206

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F12

<400> 17206

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 cttcagttcca gggctcctaa cggcaagcac ctgtcggcac cgacaccgag gcagaacaag 240
 gctcacagca gctcacatca gtagcgggga agccgggtggg cgtccaagca cggaggagag 300
 cgcaactggc atcgggtggcg cggacgagga ttccttg 337

<210> 17207

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F3

<400> 17207

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 aagatattga ccaatatagt gaagaatatt ctgagtgatg aactgataaa tcataattat 180
 cttgcaccaa cgaatttgat cagtacatgt gaagccgtca aggcataagt ggttttatgg 240
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 tttcttaagg gcagagtatg tgaagcaaag ctgagtgtaa ccagacttca agactttgat 360
 ctctgtagtg atcagagaaa gtatcacatt gttgtaaaga agttttgcct ttaaagtctt 420

<210> 17208

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F4

<400> 17208

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 cagatctaca gacagcgtga ctgaagtttg gatttcaatt cttgctgacg gcagtcttgc 180
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 ggccacagtc tagccttccc atctcttcat ttgtttcaaa ttctcttgg caaatgctgc 300
 attttctttc catttctgtt gcgaaccgta aggaactgaa ggatgggtgc ttgaacttcc 360
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<210> 17209

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F5

<400> 17209

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 ttcaccatcg gctctttgcg tgctccgctg caccagatcg ccgcgtcacc gtgaagctac 180
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 tatgttgtca tagttcacta tctcgtcct cgccgtctac cttgccggtt cgtagttgac 360
 tgttatttat ttagaacggt tggccgagta cttagtttta gtggtgtcgt c 411

<210> 17210

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F6

<400> 17210

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tgaaatggca cccggacaag tgcgccggcg caggagctc cggcgaggcg gcggagccg 180
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ttgaatcata ctgactcta cgcgttactt ttgctttag gttgggtagc tctttttaag 300
agaattgtca tgtatgtacg tacacgtagt cgtcggccaa gtatattttg cagcttgac 360
ttatttggtg atgtgggt 378

<210> 17211

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F7

<400> 17211

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cctgccacgg atcccagtag aacaaccagg gcaagggtgt ccctggaccg gcgcctctgt 360
cgctgggcct gggtcacgcc gccgtccacg acggcaaagt ctcctcgtc ccgtgggt 418

<210> 17212

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F8

<400> 17212

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gaatcgagaa cttgaagtaa atgggcagca tcataagaat caggccctg acattgagga 360
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<210> 17213

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-F9

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ttcaagcttg cgtgccagat ctctgaacg ttgctctaaa ttgcattgac aatgttagag 120
atactgatgg gaccttgccg gctgtcaa at caaagatcgc aaaccttgta gcaagcaaca 180
taagccggaa ttggccacag gatttgtatc ataagggtggc acagtgcata tgaagtggct 240
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caatatgggt gtcaccccat cctgtgttta atgtgtgtca aatggtacga tgtttatatt 360
tacaaaaaga aatttcca 378

<210> 17214

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G1

<400> 17214

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cgccctcatc catgctgacc atcatcttgt cgtcctcgtc catgctgctg acgcgcaagc 240
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ctgaaacggg ctgcgaaatt gggaatttgg agcgccagga aacttcctg attaggtcaa 360
ctccaagtct ccgcttggtg aatcccacta acaga 395

<210> 17215

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G10

<400> 17215

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catatcctac atgggtctccg cttactgcc cctgctcgtc atcgtgctct tcttcccaa 360
ttcgaggggc cccattcggg tcaacacggg ggtc 394

<210> 17216

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G11

<400> 17216

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ggcgacaact tccagcacta caagaaggga gtgtacaacg ggccctgcgg gaccaacctc 180
aaacacggcg tcaccgtcgt cggctacggc caggaggcgg ccggcggcga cagggtactga 240
atcgtcaaga actcgtgggg gcacgggtgg ggcgacggcg gatacatcat gatgaagaaa 300
gacgtcgccg gcaagccgga ggggtctctgc ggcacgcca tccgcccggc ctatccacta 360

atgtgacatg gtggtgtgca actgttttcc gtt

393

<210> 17217

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G12

<400> 17217

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cgccaagcgg agccgtctcg gcgagaccgt cacggatacg cccgcgggct cggcgatggc 180
catcatcggt gagcggcacg cccggggcca ggttgggtga ccgtcctggg cacggtgacc 240
gagccgttga gcccgcgcac gggcaccgga cgggtggttca gctggtgctg gggcggcggg 300
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<210> 17218

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G2

<400> 17218

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cagtggtcag caggaggtcc ttcaccgtgc gtgcctctct ccgcaaggcc actgccaccg 180
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ccggcgacac catcaccttc aagaacaacg ccggcttccc gcacaacgtc gtgttcgacg 360
aagacgaggt gccagcggc gtcgacgcct ccaagatctc gcatgagggg tacctcaacg 420
cgccag 426

<210> 17219

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G3

<400> 17219

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aaaagaaaca cttcgcttca gctgggtgac agacgactca gagcaaaatg ggtatactgg 120
tgattacggt ggacctagac tgctgtcgct gcagagccaa gatcaccaag gtcctggact 180
gtctcaaaga ggagttctgc atcgagaaag tggagttcga tgacaagaag gagaagaagg 240
tggtgggtgg gcggtgggaag ttcgacgccg agaagctctg caagaagggtg tggccaagg 300
ccgggaaaat cgtgaaaggg attgtcatcg ctgaggtgtg gccaatacca gccccgcca 360
aggagtgcaa gcctgaggca ccgaaatggt gcgactgtga gaagtgcgaag ccgaagccta 420

<210> 17220

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G4

<400> 17220

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gcgagcaagc ctgcgccgcc gccggcgctc tcccgaagta gaagctgttc tgatccacag 120
ctctcgattc cggaaggagt tggtaagaa ctggggatcc tgagttgaat atgatatcaa 180
atccggtgga ctggtatagt ttcggacccg gatagaattg gtagggatgc cagattggag 240
ggtgcgtgag tttgaaggta aattcactga tgagtttgcc cacagtaaca acaacaaaca 300
tgaaagtgga gttgaggctc ctggtgtcac tagtagtaag aagttgaagc atgcagttgc 360
cggtgagaaa attcaagggt tcatccctgg aatagatagc tcagatccac agaaatgtaa 420
ttca 424

<210> 17221

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G5

<400> 17221

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ccacttcgcc atccatgacg ccgcagttct acacctcttc cgtcgtcccc atcggcgcg 120
tctacgcgat gtcgctctgg ttctccaact cagcctacat ctacctgtcc gtgtcattca 180
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tcgcgccta cggcgaggcg cgtctcgacg tgcgcgggtg cgcgctgcag ctcgccgccg 360
tcgccttcga ggccacgcgg ctctgtctca tccatatact gtcacgtcc aaggcatct 420
cgctcaaccc tatcacctcg c 441

<210> 17222

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G8

<400> 17222

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ggagcccggt ctgctgctgc cggcccgcc ttctctatct ccaggttctt ctccactgtt 120
cacgatgggt tgaagtacac tcagtctcac gaatgggtca agacgacggg cgacgtcgcc 180
accgttgcca tcacggacca tgctcagggc cacctgtgag aggtgggtgt cgtggagctg 240
ccggaacccg gcacgaaggt cgcgcggga ggacccttcg ggaacgttga gagtgtcaag 300
gccaccagcg acgtcaactc cccgatctcc ggcgaggtcg tctaagtcaa tgccaaactg 360
tcaagagacg cccgtgcctg atcagcaca gcccgtacga ggacgggtgg gtgat 415

<210> 17223

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H1

<400> 17223

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 gggggcactt cgtgctccaa ccttgcccgc atcgctctca atctcaaagg tgtggattac 180
 aagtacaagg cggatgaacct tctcaagggc gagcagtctg atccagaatt cgtcaagctt 240
 aatcctatga agttcgctcc tgcgttggtt gatggcagtt ctgtaatagg tgactcttac 300
 gcgataacac tgtatttga ggacaagtac ccagagcctc ctcttctacc tcaagacctt 360
 caaaagaaag ctttgaatca ccagattgca agcattgtag cttctgggtat tcaacctctc 420
 cataacctc 429

<210> 17224

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H10

<400> 17224

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 cttttttaat aggatggatt tcatcctctt tttggagcaa attttaactc attgtattcc 180
 atatggaata agaggagaag aaaagcattc cacgaccccc gaggggcccc ctcaaaaagg 240
 gaactattcc taaaatttac ttttttttat ttatttttat tcgttttttg aacccaaca 300
 aaagtggatt caaagttact tcaattatcc ttttctttta agttcttctt gtaaagtcc 360
 atgcttgctg tttggtcaag aaaattagac ctaatccaag aaagaag 407

<210> 17225

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H11

<400> 17225

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 acagatattt atcagaggag agttcggttg gggatctgat atcatactca ccatgcacca 180

gaagggtgaa ctgaaggaac tgcttggcga tattgcacaa aaagccgaac aaagtgggttc 240
 ttcattgaaac aagcatcagt atttgtgatg caaacttccc ggactggatg ttccttctca 300
 gaagatttta ggtgatcgtg cattgttgcc ctgtggcttc ggatttgaat acgttctctg 360
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<210> 17226

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H2

<400> 17226

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 catgttttac agcgctgttc cgctcgcttc gtggctatat gcaaagtcaa gtgttgtagc 120
 gagtactaaa ctcatcgtg gcaaaagatg aataaagact taaacatttc ttcg 174

<210> 17227

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H3

<400> 17227

taaacgcac atgcctagct ctcataacgt tgtcgttggtg tacgtaaagt cctctttag 60
 cctgaatgtc aggcgcccgg attcatgaat ctattttatt gttgtattcc tt 112

<210> 17228

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H4

<400> 17228

cccacgagtc cgagcgccac tgtccagtgc gcgcgtcaag ctgcttagc tagccgcat 60
 ggctccctc gccgccgtct ccgtgaagcc cgtggccatc aagggtctcg ccggcagctc 120
 catctccgga aggaagctcg ccgtcgccag gccgtcggcc cgctccatcc gcaggccccg 180

cgagccgcc gtggtggcca agtacggcga caagagcgtc tactttgacc tcgacgacat 240
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 gcgacagagc aagttcttcg agacgttcgc ggctccgttc accaggagag gtctgctgct 360
 caagttcctg ctgctgggcg gcggctcacg tctgggctaa gtcagcgccg tcggc 415

<210> 17229

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H5

<400> 17229

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 cctctccacc aaccacaacg cccagttgca ggcccagatc tccgccctcc agggcaagtg 120
 caagtgggcg cgcctcatgt acgccgactt ctagtccgcc gtctacgaca tggtaagaa 180
 ccccggaac tacgggttca gtcggtgtt ccaagcgtgc tgcggctcgc ggggcgggaa 240
 gtacaactac cgagacagcg cgcggtg 267

<210> 17230

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H6

<400> 17230

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 gaataataac agatggttgc gagtaggacc acatcgaagc caagagatac atgtcgaca 120
 gatgggagga tcaatattat ccttttttta tttctttata accaaacacc ttggagtact 180
 ttgacacaag ggggtgtgtc acagtgggat ctccccagtt tcttgaatgc agaaccgtat 240
 ccgttgtatt tgttccttct tgctgtgagt gtaaatctag cgtgtccgaa attcggtttt 300
 agattgtagg tgtgactgta gcagggatta tctggtgtta a 341

<210> 17231

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H8

<400> 17231

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cttcctcctt cctcacaag acacgagatc actcaccaag agaagaagct ccacagctca 180
tgctagtatg ctacagtaca taccaccaaa tccatctcct aaagattttt tttaaaaaga 240
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caccagctca tacggtagac cgtagtagta caacgccgac aggccggcgg tgggcacggc 360
gatcgatcac cagcagcccg taagccgcgc aggggcactt gccttttgat cagctgacgc 420
cgcg 425

<210> 17232

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A1

<400> 17232

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cacataacaa ttgtctccat cacacaggtc aactcgattt ggtaaccgac aacggcacag 180
tttgctaaga cctcatcttc atatcacctc ccgtatcact tcccaggatc catattgatg 240
ctggaggaag agtccacagg gcattcaggg tatgcctgag ttcatcgacg actcaacgtt 300
gatcgtcaat cagcacttac gaatcactaa gctcttccat agtttcccat catgatgtgt 360
caccgttagt ctcaccatt 379

<210> 17233

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A10

<400> 17233

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aaaaatattc ccaacagtga gatgcaatgt agactaactc gcttgccaag tagtcttctg 120
ccaggattga acttggggcat ttggaatggg ggtcactagt ttgttaaagt cgcaaatctg 180
tggggcaaac ggatatctcc tgatcctcct catctgccaa gcaacccac ctcttcaatg 240
aacaatgcag caacacacag ccagtcatgc tgaataacat gtcatacatc tgatgctgtg 300
acctaactc tgatggaagc atcaaagca tgttgtgtaa aacatattcg tcaagttatc 360
gtttttatat acgtaaacgt atcaagcacc gtgctgattg agggctgttc tt 412

<210> 17234

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A11

<400> 17234

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tggtccgagt cgcacaccg ccgtacaacg gcgatggcaa gcataaccag aatcacgctg 120
ccgagtgcgg ctctgtcaga cgggccctga gcgcgtagca gtatcgtgc gtgacgtgcg 180
cctcggagtt gcacccccgc tgcttgggtgc cggaggtaca acagtgccgc agcgcacgcg 240
agggctatgc cgggcgcgcg gggtccgcgg gcagtagctg ctgcttcggg ctggtagacg 300
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<210> 17235

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A12

<400> 17235

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tatttatgga gtctccagtt ggcttgagac cacatcttcc agctgagagg aaatgggctc 180

ttggtcttca gtctcgagca catccaaaag aaataatgtc tgaagtgtg aaagctctgc 240
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 ctggctttcc tgctcaaatt cataacaatc ataacttcag tgcagggtcc attgaaactg 360
 ataacctgag tgagagggtta agtttaatta agtttgggaat tcagctgtgc aaagcaagag 420
 acgagaa 427

<210> 17236

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A4

<400> 17236

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 cagactgatg atttgcgttt tcagctcata tttttgatcg ctttgtcgaa gttgtgtttt 180
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 aatcttaatg atcatttcct caaggcttca gttgatgtct acttcataca tgagatgttc 360
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<210> 17237

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A5

<400> 17237

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 agcaaggaag ggtgaaacag tagagctttc accaagacgt atatcgatat accaatttga 240
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aacatacatt cggtccttat gtgcggactt gggtaaagca cttggaagct gtgctcattt 360

aactgccttg cggagagact cgataggtga atactcggtc aatgatgct 409

<210> 17238

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A6

<400> 17238

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gccctatgag tttgacattg agctgtttga tgctgtgaat gtggaggaga gcaaagcagc 180

tgttgcccca aggaccatat gctacctgat aaagaaagct aagagcgggt ggtggccaag 240

gctgctgaag caggagggca agccacctgt gttcttgaag gttgactggg acaaattggca 300

ggacgatgat gatgaagatg ctggatttaa taactttggt gatatggact tctcgaaact 360

ggacataaga ggtgctgatg acgacgatat tggggatgat gaaga 405

<210> 17239

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A8

<400> 17239

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tctgtaccag gggcaccgtg cgaagaagga cccggcgaac gcgcagaggc acaagatcca 120

ggccggcgctg gcaacggcgg cggcgctggg cgccggcggc tacgcgtacc acgagcaccg 180

cgagcagaag gaggccact acgagagcag gcagcaggag cacaggggtgc cgcacgggca 240

cgggcacggc tactcctact actgcgactg aaacgactga tcattccatc gatcgagata 300

tgcatgcaga actcgatata tatacggccc ctacgcgggt acacgtgcgt gcgtgtaagt 360

aaataagagc aaacgtcgtc acgtgtgtgt tgctcgatca ctactccatc gatctac 417

<210> 17240

<211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-A9

<400> 17240

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aggtattgat ctatgggtatc tagactgcag gttgtactat aggggttgatt gttctgattt 180
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<210> 17241
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-B1

<400> 17241

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ctcatattgg taacggcgta aggcataatt cgtttttctg attcgctcga tcaatgcaat 180
acgacaaggg ttttgttttt gtctcacgtc tcattgtcct agctacgcc ataacacaag 240
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tttttttgcg tacgagattc ttaggcaccg tttgtttttg gtcagaatga cttcactgag 360
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<210> 17242
 <211> 78
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-B11

<400> 17242

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atgggggtgca acgccggt 78

<210> 17243

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B12

<400> 17243

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gtttctcttt gctgatgagg agtcaacaag cttgcttagt gtatgcaaag gcacccctgaa 240
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agccaccaac gtcacccaga tgaaaactgc tgcggacgca tgcgtggtgt atgatctgaa 360
gcgagcaaaa tgaagcatga aggcagcttc acggtttagt atcgacatat ccaagggaaa 420
ac 422

<210> 17244

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B2

<400> 17244

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aataattttc accacaaggg agaatacatc atacacaaca gcgggggtgaa ggttcaatta 180
aaaaggactt cttcatcaaa tttctctaata tgtaacagtc cagttccaat cttccgcct 240
aaacaaaag ccaggtttcc cacgtacgaa gactggcaca atccccatcg aggatttgca 300
atcaaccgtg catcagccaa tagaaccoga ggtccttgtc atcgacgaca aagtcaccct 360

tcaaaacccc acagtaagcc gcaacggggc aaaaaaaac cccggggaag aggcggc 417

<210> 17245

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B4

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agctcgccgt catcgccggc gtcgccgcgc tcgtgttcgg gcccaagcag ctccccgaga 120

tcggccgcag cctcggcaag accgtcaaga gcttccagga ggcggctaag gagttcgaaa 180

gtgaactgaa gaaagagcct ggggaagggt ggcgtcagcc cccacctgca acccccacgg 240

caacgggggt aggtggcgcg gagaaggggc ttgaggcatc aagtagcaag gagagcacgt 300

gaggatctat caagtgttgt tagtgttgtt ggtgtaaaat tgtattctgg tcttctggag 360

ttagcatcaa gttcatgtcc tttttaacca cgtcgggggt tcaggccatt gtagcgatat 420

<210> 17246

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B6

<400> 17246

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gttagagcga ccaatagatg agttcctccc cgtcctttgg tctcctggct gtagcagcat 120

tactcctagc actgagctta gcacaacatg gtcacctcgc cgcaaccgtc ggccccaggg 180

tcacgcgtcgt cggcgccggc atgtctggga tctcggcggc gaagaggctg tcggcgggcg 240

ggataaccga cctgctgatt ctggaagcga cggatcacat cggcgggcgg atgcacaaga 300

cgaacttcgc cggcatcaac gtcgagttag gcgccaactg ggtggagggc gtgaacggcg 360

gcaagatgaa gcccatctgg cccatcgtca actccaccct caagctccgc aacttccgct 420

<210> 17247

<211> 415

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-B7
 <400> 17247

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 gcactgccag atgagctttg gtcttagata agcactgaaa cttgggctaag tagaatgatc 180
 aatccagtgt gtagtgccat tcggcttcat atgccaaactt tagctgctga gactaagtcc 240
 gtcaaattgg gacgccgata cctacagtgg ttcatatgcg cggtagcaca acctttggga 300
 gaccaactaa tcagtcagca tgcaggatca cattggagat ccatcgtcgt aaacctcaca 360
 tgtacatggc ttatttgagg taggatagga atcactgttg tgtttcacat agtca 415

<210> 17248
 <211> 394
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-C1
 <400> 17248

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 ttttttttta accaactcgg ctagagtgc cttcctaagc gtttctaatt tacagttcca 120
 gtaaacacaa ctgaagccgc gtgtcttccg ttttattaac gattagatgc attattatat 180
 gcaagttaat gcaatataga tactgctttc cacgcacca attctccgaa taatatgcat 240
 tcacagtaaa aacaacaatc tccgagcaac aaaaaccttt aaaaacgtac tcatgaccgt 300
 gtcacttgta ggcgtggatg taatcttgaa agtataagtt cttcgggctt aagttggcaa 360
 gccaatggga ggcagcaaag cacagcacgg ggcg 394

<210> 17249
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-C10
 <400> 17249

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catcatgctg gcagtctaaa actgccaaact cccagtccca aacgctcaag ctgtatcagg 120
agcggtgact ttggggtaat cggagtgcca ctgaacctcc cactccgtcc aggacccatc 180
gtagactggc acatcacgct ttccgatcct gtacagcccc agagcgagta tgcaagcaat 240
cacgccggtt ccgcaagtca cgacgatggg tcgctgccat cgagattcct gcgtgctgaa 300
acttccgccc cagctcgctg gcggggagga gaaggctccg tggcgcccgctctaaaatct 360
cgggg 365

<210> 17250

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C11

<400> 17250

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tgccgctggc tttctcatca ctgtttctct gcataatgta cacatggaac tacggaagtg 120
tactgaagta ccagagcgag atgcgcggca agatatccct ggacttcatt cttgatctgg 180
gagccacact tggcaccgta agagttccag gcattggact cgtgtacaac gagctggtcc 240
agggaaatccc atcgatcttt ggccagctat tagtcacact tccagcgatg cactctacaa 300
ttgtctttgt ttgcataaag tatgttctctg tcccttatgt cctctctgaa gaaaggttct 360
tgttccgaag ggttgggcac aacgactacc acatgt 396

<210> 17251

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C2

<400> 17251

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cttcgttggc ggctctgcct gggccaccga cgaccactcc ctcaacaacg ccttcagcac 120
ctacggcgag gtcctcgagt cgaagatcat cctggatcgg gagacgcaga ggtcccgcgg 180

cttcggcttc gtcaccttct ccacggagga cgcgatgcgc agcgccatcg aaggcatgaa 240
 cggcaatgag ctgcacgggc gcaacatcac cgttaacgag ggccagtcgc gctgcggacg 300
 tggatgccgc ggtggcggat acggtggcgg gcgccgtgat ggaggcggct acggcgggtg 360
 cggatggatgc tacggcgggtg gtcgttgagg ctacggcggc ggtgggggat acggtgg 417

<210> 17252

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C4

<400> 17252

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 ccatcgtcac cggcaagggc ccgctcgaga acctcgctga ccacatcgct gaccagtcga 180
 acaacaacgc atgggcctac gccaccaact tcgtccccgg caactaagct caacggctat 240
 gctatgcaac ttcattgtct ttcggatcgg agagggtgta cgtacgtgga ttgattgatg 300
 ctgcgagatg catgtgtgtc ttttgtttca cgttgcatgt cataggcaag tcgagatgat 360
 gagttggcgt tgtacactaa gatgaaccat gtttgtgcaa tagtggtggt ttttgttt 418

<210> 17253

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C5

<400> 17253

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 gactgttcta acaacagtat aaccagattg ctacaaacac cttggcgcca gtggctcttc 120
 tgacacatgc agtctgcaat gtgtagaaac gtgttcttgt catcagattc tcaatcattt 180
 gcttttggca acagacttaa catacattgt ggcattggca cctcgattgt cataactgat 240
 gtcgctacgt cctccttaca ttaacgctaa gattgacgac gacacaagga acaagagcgc 300
 attactgctg tgaatacaaa tctcgagacc ttccatggac agaatatcgt ctactatcac 360

gacctacgtc tatagcttgt attgttctca ccttgaatca gtcag

405

<210> 17254

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C6

<400> 17254

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atcatcacag gagtaatact gcttgtagt tcaaccgat tgattgcgcg tctacctagg 120
tctgttcaga agtatttgaa gagcaacata gagcgcaccc acagcatcag gaggcctggg 180
tcagcacgag ggaaggatcc catcccaaca acaacgatcc atacgtcgtc actacacttg 240
cttgcttctc caacaaagga gaaggcctag aaaaatgttg gcactagagc aacttcgttt 300
gggcacctca cgtttgccat gttattgatt gattgaatgg ttccgtgaac gtagtctaga 360
gtagcatctt aaaagcttgg gttgggttatt caccatactg ccctttatag gtctaaca 418

<210> 17255

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C7

<400> 17255

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gatggccgcc gagggcgaga agaagatgat aaccctcaaa agctccgatg gcgaggagtt 120
cgagggtgaa gaggcggtgg cgatggagtc gcagaccatc cgccacatga tcgacgatga 180
ctgcgccgac aacggcatca ctgcctctaa cgtcaactcc aagatcctat ccaacgtaat 240
cgagtactgc atcacgcacg tacatgccgc cgcagccgca gccgccgcct ctaatgccgg 300
ttccgacgac gtgggtgccc cctccgcaa cagcaccgcc gcctccggtg aagacctcag 360
gaactgggat gctgacttcg tcaaggtcga ccaggccacg cttttcgacc tcatcttggg 420

<210> 17256

<211> 417

<212> DNA

<213> Zea mays
<223> Clone ID: LIB84-004-Q1-E1-C8

<400> 17256

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tatctgctgc ggtggcatca gggcgctcct ctccctccag gacggcgac ctgacacctt 120
ccacttcgtc gaggactggg ttaagatcgg cttcattgcc aagatgaagg taaagaatga 180
gcacgcctcg gtgccgttcg atgaccagtg ctccattctc gagaggagg ccgtgaacgt 240
gtccctggag aacctcatga cctacccctt cgtcaaggaa tggcttgac atgggaccct 300
caagctgatc tgcggccact acgactttgt ctcaggagag ttcctcacat ggaacacgtg 360
aatgctacg gctaaggcag ttctaaccgc ccgcgcactc ctgcattatc ataaata 417

<210> 17257
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-C9

<400> 17257

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ctgtatgtgg tgctgaatgt ggtgctgctg atccttagct acaccattga gaaggatgcc 120
atcctattca cgcaccctcc tatgggttct ttcagcaaca ctgggtctcac tatttctct 180
aaattaccaa gattctcgga catgtacact ctcaaatat caactgcgga tccacagtca 240
atctctgcaa acaagccagt tcatttcact aagagcgtca caaactgggt tacaatggaa 300
tgagttcttg tggagggcct gttctggtag gatgtcgca agctgattga tgactacaac 360

<210> 17258
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D1

<400> 17258

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cagcaacgcc ttgatgtggt tgttgttctt cgcgctctcg tgctggtcgt ggtgcggcgc 120
 cgtcacggcg cggccgaccc cgagcaccag caccagcacc accacagccg gcggcggcctt 180
 catcaggtcg tgggtgtgcgg ggacggacta cccggccctg tgcaacgcga cgctggcccc 240
 gtacgcggcg gaggtcgggg ccagccccgc gcgcctgtcg ctggcggcgc tgacggtcac 300
 gctggacggc gcgcggaggg cgacggccgc gatgaaggcg atggcggcgg gcggcgcgag 360
 cagccaccac ctctgtcccc tggcggccga ggcggccgcg gactgcgtgg gcatgctcga 420
 ggac 424

<210> 17259

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D11

<400> 17259

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 aagcgagttc accggtggat ccgcgcgtgg ccctccctgt tgcttgcggg cgctggccgt 120
 tggccaggtc gcccagccg gccaccccc gcccgcac cctgctgact tgggcttgc 180
 gtatagcacg gaccagatca agggtcgccg tcgaccacat ttgaggcttg gccatgcctt 240
 taaatataga tattgatctg ttcaagctgg atattgatga gctgatagct gattattcca 300
 atgagaactg tacgtcactc tttgaattca aacgagtatg gatgggcaag aaattttcgt 360
 atagctatga acgcagacct aagacagact cggg 394

<210> 17260

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D12

<400> 17260

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 acaacgagcg cctcggcgag gtgggcgccc tcgcgggcgg cgcctttgct ctgtacgagg 120
 ggcaccgtgc gaagaaggac ccggcgaacg cgcagaggca caagatcgag gccggcgtgg 180

caacggcggc ggcgctgggc gccggcggct acgcgtacca cgagcaccgc gagcagaacg 240
 aggccacta cgagatcagg cagcaggagc acagggtgcc gcacgggcac gggcacgggc 300
 acggctactc ctactactgc gactgaaacg actgatcatc ccatcgatcg agatatgcat 360
 gcagaactcg atatatatac ggcccctaac gccgtacacg tgcgtgcgtg taagttcata 420
 agagcaaacg 430

<210> 17261

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D2

<400> 17261

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 gagaacgaga gccagtccg ggacctgatg aacacgctcg cagcttccgg gagcggagct 120
 gctggcacag cgttcagcgg gggtttcccg ggcattggacg acagcaagct gagcacgaga 180
 gacttctcgt gcgtcggcgg cggcgtcctg cggagcatgg gtggcgcggc agggctgccg 240
 ctgcccgcag gtgccgcggg cattggcatg ggctcattgg acacagaaat gaagtaggtg 300
 aatcgaaatc cgaaacgagc attattatgc tccactcttg ggctcttgca ttgcatgcaa 360
 ggtaagtagt agcagcctaa gcaaacgacc tatggaaaga tgagaccatt ttcgcgcaaa 420
 at 422

<210> 17262

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D3

<400> 17262

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 acgaaaggtg ctaatgctgg tgaagagaaa cagattcttg acactaaggt tgacctgtca 120
 aatggttcat cagaatctgg aaaagagaat ccaaataaat atggctctga aaataaccct 180
 cagtttacta ctgtttatgt tggcaatctt cctcacgagg ctaccatgaa tgatgtgcac 240

ctgtttttcc attcactggg ggctgggttca attgaggaag tccgtgtaac tcgtgataaa 300
 ggcttttggt ttgtgaggta cagcaccatc gaggaggctg cattgggaat tcagatgggt 360
 aatggccaac ttattggcgg gaggcagata aagtgttctt ggggaagcaa gccgactcca 420
 c 421

<210> 17263
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-D5
 <400> 17263

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 aggggatgga cgtctgtaca tatgcaacga ccacggaagg agcgaggctt ggtgatcagt 120
 accacacgag catagctcca tgtgcggagc tgaaagacaa ggggatttgt ttgttcccct 180
 tttccgtgct gctgcactac catggggccaa actgaggaaa aaaacaatat gcgaatgaac 240
 agcatatgta gtgtttcgca acttacactc tatgcgcgca tgcattgtgt gtatgaacga 300
 atgcaagaag aatgtgatac tgtggataga tatatgtttt tccttaatga ggatat 356

<210> 17264
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-D7
 <400> 17264

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 ttccttgaca gtgtttggtg cagtgggact tgctcacctt atacagggca gcaaagacgt 120
 gaccaaggta aaggaggata tggaatggga gggtgtacag acaacacaag ctctaagtcg 180
 aacacggcca gtggaacgag cctataagcc taagaaactc tctctagagg acgaactgaa 240
 agctttgcac cagaaggttg acataaacag ctacgactac aagcccatcc caagaccag 300
 tgagaaataa gtgtagatga agaccgtttg ctagtgcgtc gattggatgt ttgtatcttg 360
 atacttacgt cgtcacgtct tgtcacaagt tttgtatgaa tgtaccgagc tgattcaag 419

<210> 17265
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D8

<400> 17265

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 gtgtgtttga cagtgtcttt gaaaatcaca cctccagaaa tttgtgattt cgaagcgctg 120
 aagggaacagg tccagaaaaa aggggagatt gttaaaattc cattacttgg gagtgaccgc 180
 acgaactatg gtaatgttgc catgttgctc caactatgtt ctaaagattc catggcgtgg 240
 ctaagcaaaa ctgctgcaca aaaaggaaac agaatttgac tggacgtctg aatatcttcc 300
 cttcagtctg agctccagac cagagtgcaa aaagaaacat tgaaccaatg gaaaaatgaa 360
 taaaagaaca atcagtaact acagtgcatt tctgaagatt ctcatgggag tgggcattc 418

<210> 17266
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D9

<400> 17266

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 tgggacacga tcgccatggc cgccacatcg accgccgccc cgtactgtg ccgaccgtca 120
 gtggccggggc tccgccaggc gccgactccc gaacggacgc gcgtgtcgat ccgcgcggca 180
 cctgcaccgg caccggcggtc cgtggcgga caccgggagc tcagcacggc actagcaatc 240
 atccagagac aaggcgtgtc gctcttcctg tgccgatgag tcgcacttca acatccagtc 300
 ggagaacatg gcgaagcagg tgcccgcgca caacggcagg acacacgtcg agtccgatga 360
 cgagcgcgcc aaggagttag ccgcactgca caagtccaac g 401

<210> 17267
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E10

<400> 17267

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ccattgcagt tcatagttac ggtgaagagt aagcttttac ttttttagtt gtttaggcga 120
catagaattg ctatatgggtg taagttgtga ttcaccccag gtcttccaac cttagttgca 180
gaaacatctg gcagacttgg ataataatac ctgctccaaa atgcaattta ctcatttggtt 240
tttttgctg ttatatgatg gttttccttt ctagcacgac atagaaagtc acaagttgtg 300
cacctcaata gtaacacaag ttaatcactc cctgtttaat tcttagacat aacttttagtt 360
gtaggttctc 370

<210> 17268

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E11

<400> 17268

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gacgacgacg cactcgtaca ccggcgacca gaggtgtctg gacgcgtccc accgcgacct 180
ccggcgggcc cgcgcggcgg cgctgaacat cgtgccgacg agcacgggcg ccgccaaggc 240
cgtggcgctg gtgctgccgc agctgaaggg gaagctgaac ggcacgcgcg tcggggtgcc 300
gaccccgaaac gtgtccgtgg tggacctggt gatcaacacc gtgaagactg gcatcacggc 360
cgacgacgtg aacgctgggt tccgcaaggc cgccgcgggc ccgctgcaag gcat 414

<210> 17269

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E12

<400> 17269

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ggagcgcgcc cctccgccac ctctgaggcc ggaaggttcc ggcctctcgc tgccctctc 120
 cgccccgtcc gctccggaaa attcgtagtg cctaagcgat gcttcactgt gtcaagtagg 180
 cttgcatggg tggaagatga gcttatggag ataaaaaagt cacaagagca aagttcagta 240
 aaatcagaga aaagaccacc tttgaggcgt ggaaaggtct cccacaaact tcctgtacca 300
 gggcacattc caagaccatc ttatgttggg tcaaaaggat tgccacaaact atgcaagggc 360
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<210> 17270

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E2

<400> 17270

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 ccacactaac caccatgac aagccccaca tgttgggagc attctgcgca ccggatgata 120
 atcagcagca actcatctcg gaggccgctt tgc 153

<210> 17271

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E3

<400> 17271

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 ggagagtatc aacgtatgcc tgtctgttga gagtttatat cctagtgaat taggacctga 120
 tgcagtgtcc acaaaggact tccttgaaag tggtttagtg caacttgaca agagcatgga 180
 agaaagaatc agagcagcat ctctgagagg aaacgttctt cgctacgtct gtgagattga 240
 aagcgcaggg tgccaagtag gccttaaaga gctcccaaag gattctgcgc tgggtacatt 300
 gaggggaagt gacaatgtgg tcgagatata cagcagatgt taccagagct cccctctggt 360
 gatccagggc gcaggagctg gcaacgacac cactgccgcc ggcgtccttg ctgacataat 420
 cgac 424

<210> 17272
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E4

<400> 17272

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aggtgcagtt caccaaggag cccaacaacc tctacaagtt tacactccta caagtactct 120
ggcttagcaa acaagaaaac tgtaacgata cagccagctg ctggaaagga ctgggctgtg 180
gtcctctcta ctaccacgac caagaagcag agcacacccg cgaagctcag ccacaagtct 240
gtgatgcgca aggagttccg cacgatggcc aatgctgtga aaaaccaggt tggcgacaac 300
tattacaggc ctgatctgac caagtcggcc cttggtaggc tgagctctgt gtaacgcagc 360
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<210> 17273
<211> 146
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E5

<400> 17273

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cctccagctg ttgtgttcat ttgttttgtt caatatgggc catggccacc aaaacaagat 120
ctgaattgta actgttatta accttc 146

<210> 17274
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E6

<400> 17274

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ttcgtatcgt acgtttcggc ggcgatactg tgtatccatg gtgcgatgca ttccccgcca 120

cgccatcagc cacgtcaggg atgaggatag gagctactac gctcacatcg cgggttcgca 180
ccacttcgcc agcggtagca tcgatgcact gatgccggag ctggcgcggg ccaccaccag 240
cactgacacc ctcttccact cgaccctgat ccaggtacga cagtctaact tgtgctcgga 300
tggtctcaga ctagctatcg gagaccaagg aggattcagg gatgtcgacc atcatggtac 360
tggagcgctg gtataactgc tgggaggttt catggcagcc tgtctgcacc tgcaccgacg 420
ctcattg 427

<210> 17275

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E7

<400> 17275

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tgcactctgc acggcacatg gatgggctga tctccactga gatcacagga ttcattggtg 120
gtggcctgct gctcagctcc agcatctctg ctcccaaagt cgacggcttc atcgcttcct 180
cccaaagaag gtcactaggg atatgtaaga ggtgcgggtga ccttcggatt gtaccatgtc 240
cgcagtgcaa tggaacagga tcagctcggc gctgcgggat gctcactttg ggcggtcagg 300
atgatctcga cgagtctcat gtagccgaag ccactactga taatctgggt ccttgcacaa 360
agtgcaggtc g 371

<210> 17276

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E9

<400> 17276

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gtctgctaaa aaatatagga aacagtactt gtagatgata aaaaaaaaag ccaaaacttg 120
cagcagtttg acaaaaacag cagctctagt cgtcgaagag gctgaagccc atttcctcgt 180
ccgactcctc ttcaggctcc gcagccttct cttcttcctt gggagcagct gcagcgccag 240

agtccccagc agcaaccggg gcggcaacag caaacttgct tgggtccttg aggtactcct 300
 tgatcttgtc agcatgtggg tacgagtagt ctgtctcgac agcaacagca agcacattct 360
 tgctagttct aagatcgaga 380

<210> 17277
 <211> 349
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-F10
 <400> 17277

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 aacaagatag ctctcaagtt cgacaactgtg ttttggcccg acgttgaagt gataggtagg 120
 gtggccccga cgtcaaacgc ctgtgggtac tttctcaacc ttaacaaagc cacaggaaac 180
 ccggtcctgg tgtgcatggt ggccggaagg ttccgctacg agatcgagaa gctgtcggac 240
 gaagagtcg tgaacttcgt gatgtcccag ctcaogaaca tgctgccgca ggcaactgac 300
 ccggttcagt atctggtctc gcgctggggg agtgacccca actcacttg 349

<210> 17278
 <211> 279
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-004-Q1-E1-F11
 <400> 17278

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 atgtatgaga tattgtcttt tagtagtact ggatgacgat atgtgtgaga cgtttgtgat 180
 gtgagtgcg acactaagga tgagactttt gtgatgtaat tgatgagact atcggtttat 240
 atattgttat gtgatttgtt gtgagatggt ttatgcgag 279

<210> 17279
 <211> 99
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F12

<400> 17279

atcgggtatg ccgtaccaac tcattcatctg ccgttgatgt ccccaacaga cegtatcaat 60

tccccgccgc cgtgcccac tctagatccg aaccgacaa 99

<210> 17280

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F2

<400> 17280

gtcgacacat ccgtccgaac agatacgtat aaggattcgg ccgttaacga acaggatgtg 60

aacaaggata tcattggcttc atcaaaagta tgcctca 97

<210> 17281

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F3

<400> 17281

gatatccggt agccgacatt cattgcgccc ccatgatggg cccgacgttt ggcgccatga 60

tgatctccgg ccacaatgct gcgcaccttg cgctcaacgc cctgtcgcat gcccaaaggt 120

ctcgtccgga ctatgtcgcc gccattgcgc aaagagttga tgattgcgta caatgacgac 180

gacgtcttgg acgcctgatt gcagcatgca gagacgacga tcaaccccat caccatctta 240

acgtaaatgc cttgttcttc aatgatgaat caatcgaatt cccttgcgtt aacattaaca 300

ttgttattgt tactactaat tt 322

<210> 17282

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F4

<400> 17282

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catgatgttg acctctgggt tcttccgact gcttccggag ctcccaaaga tcttctggcg 120
gtatccagtg tctacattg tcgatgggtc atgggggttg aagggcgggt acaataacga 180
cttgatcggg ctggagtctg agccgatgat gcgaatgcag ccgaaactga ccggcgagta 240
catcatcacc gagatgatgg ggctgagcct gaaccactcc aagtg 285

<210> 17283
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F5

<400> 17283

aagcaggcat gaatctcatc catcatcgag agtgtccaga agtgcagcac atatcgagga 60
tattaactcg agaggagggtg aagcatcccg gaatggagat cctgatgctt tggcaacaat 120
gaacgcaact gcagaagctc ttgaagcaaa agaaaagcaa aagccatcgt ttgaattgtc 180
tggaaagctt gctgaggaga ccaacagagt tgcagggtga aatctattat attcagaacc 240
cccagaggct cgaaagtcag agattagatg gaggtcttat gtatttaaag atggtgaacc 300
actgaatgaa cactgtatg ttcacggatg gacctgctac ctttttggca gagaaaggaa 360
agttgcagat gtcaccacag atcatccctc ctgcagcaag caacatgcag ttcttcaata 420
c 421

<210> 17284
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F7

<400> 17284

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gttaatecta gctgtatgga tcgcatcag cggttagcct tttggattaa cttatacaat 120
gctttgataa tgcatgcgta tttggcatat ggagtacctc gaaatgacat caagcttttt 180
tctctgatgc aaaaggcttg ttacacagtt ggcggccagt ccttcagcgc agcagaaata 240

gagtttgtga ttcgaaagat gaagactcca gttcatcgga cccaactttc tttgatgtcg 300
 actctgaata agttcaagat tactgacgat cacaagaagt actcaatcga tgaattcgaa 360
 ccccttcttt tgttcggact tagctgtgga atgttctctt ctctgctgt acacatattc 420
 tccgctgc 428

<210> 17285

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-F8

<400> 17285

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 cctccgatca cgccagtcag tgaagtccgc ctttgaaatc caataactcg gaacaatgat 120
 gatatgacga aataggccgt gttttcttgg acaatgatgt taagttcggc aacgttttcc 180
 tttctattat tttttttcaa ctgcgtggtc tatgtgtata ttgccaaagg catgcgtgag 240
 ccatgcgccc ggtgctgtgc tagggcgcac agactatcgg atgggtgaaa caccggaaat 300
 aagagcgtgc cgctgtgtgt ctctttgac gaacaagcct ggcggtcgag agagctacaa 360
 ggtgaccaaa catttcaggg agctgcttca aa 392

<210> 17286

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G1

<400> 17286

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 actggggcgg gtctgcgtcc ccttggatcc gacagctctc ggccaccttc cacttccctca 120
 agaagctcca cctgcgcagg atgatagtat ccaacgaaga tatcaacatc cttgtgcgtg 180
 ccaaggcgca catgctcgtc acgctgaagc tcgaccgctg gtcgggcttc tccactccct 240
 cccatcgcac tcgtcgcgcg ttcccgcagg aaactggaaa cacttttccct ggaagaaagc 300
 aaatttgatg agaaagaaaa tgatgagtgg atccgtagc ttgccacgaa ca 352

<210> 17287

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G10

<400> 17287

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cgacctgatg cgtgtctgct gatgtcgggg agtttaccag gactgtgccg ttcttgattt 120
ctgagagctt atcttctagt acacctcgtg ttgttctctt cgtcacggcg ccggtgcgtg 180
tgcgctgaag ctgcctgcc a ttgccattgc cgctgttttt aattaagcac acactctaga 240
tggttatgccc gcatgctatg ttctgattct caaagttgat aaatgatggc tggatgctgg 300
ttttcgtgct cgaagcctgc tgcttcttcc atggaaaaaa agacctgccc gtgttgacgc 360
gttgttgt 368

<210> 17288

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G11

<400> 17288

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tcccgttcga caagagaaga gaagaggta ttcattccatc tgcgctgcag cctgcagaga 180
aggagaagga ggagacaggc gcttgacatg ggcaagtacg tggagctgct ggacatgggc 240
gtgcgcacgc ccgcgcgctt ccaactccac tgccgcgaga ccgcgcgcct ctactaccac 300
ccgcccgcgc gcggggccggc ggccccgggg acggccgcaa gggcgactcc gccaccgccc 360
ccgcccgcgc cgccgtgatg ctgaagcagc aggggcaca 399

<210> 17289

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G12

<400> 17289

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gcctgggggag ccgccgggag tggtcctaag cgcagccaga tcgggggtgg tgcccgtggc 120
tccggggaag ctctgtcagc ttctccgtg acgagcagct gcgtgcggag tgggacatcc 180
tcagcaacgg agggccgatg caagagatgg gcaagatcgc caaggggcag gagcacggga 240
actcgggtgc cctcctcaga gcgagtgcga tgagtgcga ccagagcagc atgctgatcc 300
tccaggagac ttgactgat gcatcaggct cgatggctgt gtatgcgcca gtggacatcc 360
cggggatgca gtcgtcatg aacggcgggg actcgacctt cgttgctctg ctgccgtctg 420
ggt 423

<210> 17290

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G2

<400> 17290

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tccttcgcgg gtcgccggtc cccggccgcc acgcggacca caccggcgtc cctcgtgggtg 120
gccaccggcc cgcgcggggc cggcgcgggg cccatctgcg cgtccatgtc catgtcctcc 180
tccaaccgcg cctacgagct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240
tcccgcgaga tgaccggtcg ctacatgacg gacatgatca cctacgccga caccgacgtc 300
gtcatcgtgg gcgccgggtc cgcgggggtg tcctgcgcgt acgagctctc caaggacccc 360
gccgtgagca tcgccatcgt ggagcagtcg gtgtccccgg ggcgggggcg gtgggtggg 419

<210> 17291

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G3

<400> 17291

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 actttcgaag gtttagttac ggaagcccta cccaacggaa tgttccgcgt tcgcctagag 120
 aatgacacga tcatcctggg ctatatattca ggaagatcc ggtctagtcc tatacgaata 180
 ctgatggggg ataggggtcaa aattgcaata agtcgttatg attccagcaa aggtcgtata 240
 atttatagac ttccccataa ggattcgaag cgtaccgcag actcgaagga tactgatgat 300
 ttgaaggata ccaaagattc agaggattag gtttttctgg ggtaataact tccaagtttc 360
 aaaatttagg tgcagagact tattttttcc aaaggaatag attcatagtt taagaaagga 420
 a 421

<210> 17292

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G4

<400> 17292

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 cataccagcg ggatcaagct attttgctgg ccaaccgaac ggtcaagccg acgatgacgc 180
 tcggatcggc ggcacacaag atcccgtgg aggttgcgca caccctcgtc gagatcgccg 240
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 cgactgcgcc gcccgcaagg gctgatatca gcgggggcac caacgatgga tccgcgcggc 360
 tgctggagga gaacgccatg ctccgcgcc gactcgcaa tgacctcgcg ctctcgcg 418

<210> 17293

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G5

<400> 17293

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tctttgcaag aagaatgtca ctccacctat gatctcagtg agagggattt tactgagcca 180
aagatgaggc atcgaggatc agttactacc ccagaaaagg gaaatcatga aagtgcaaac 240
accacaacac tgtctacagg tgctgatgct agcaatcatg ttcaaagagc gagatcaaaa 300
gcattatcag tctttggggg attggatatcc ccatgactaa gaaccgcca actttcattt 360
gaaacagcac ttgacttgaa tgtggagcta gcatattcaa tgcgaatat gttagctagt 420
t 421

<210> 17294
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G6

<400> 17294

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tgaggtgcca gcaggagacc aagggcggtg gcgggctgga cgtgtggctg agccgcgggg 180
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gcgtctcac ggccttctc atcttccagt ccgggacgcc ggactgatgg gtgaattgtc 360
aaagctccca caaggacatg cataaagtct gtcagagtct tgtgctgtgt at 412

<210> 17295
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G7

<400> 17295

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cctatggcca tagcaacgca tgcctctgca gccacgcgcg aactgctggc cgtggcatgt 120
gcgccagagg ggaacctccg ggacttaacc tcggagctcg tgcgtgtgtc gtcattctac 180
ttcgggcccgcg caccactctg cccgtccacc caggaagctg tggaggatcc aaaggggttt 240

ttgccccagc aactggaccc agaatgcc

269

<210> 17296

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G8

<400> 17296

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gaatttggtt agctatatgt aggcattggga gcagctcgag tacgtgacct atttgctaag 180
gccagaaagg aatcgccatc gattatTTTT atcgatgaga ttgatgccgt tgcaaaaagc 240
cgtgatagtc gatatcgcat tgtcagtaat gatgaacgtg agcagacatt aaaccaattg 300
ctcacggtag gacagtgtcc tttcatatTT cttgagcatt caccagatta gcttcatcgc 360
aagttgggac cgaattaaag cttatacttg tatttttagt ggctgataat tgattttt 417

<210> 17297

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H1

<400> 17297

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<210> 17298

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H10

<400> 17298

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ggcgcagccg tgtggaggcc gagctcgtag aggcgctcgc caacctcgag ggcgagaagg 120
aggaggctgt taacgcgctc gacgcccaga tcgcctcgct cagtgatgag atcgtcaaga 180

aggtgctccc atccgcgtga tgaaccaga ccggccctgc cttatcctag gactatagtt 240
 acatgaacat cataaattaa tgataatddd gaagaaattg ggcgatgact ccgacactgt 300
 actcatgaaa gattattgga tgggttgtgt ccaccgcctg tgttgggtgt ggattgttgt 360
 ag 362

<210> 17299

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H11

<400> 17299

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 catcgctaag ccgtcgctgt ccaagaagcc ctccgcgtcg ttccgcctcc ggaacggcag 120
 cctcaacgca ctgcgcctgc gccgcgtgtt cgacctcttc gaccgcaacg gcgacggcga 180
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 cggcctggag gccgcggttg gcgggtacat cccggccggc gccgcggggc tccgcttcga 300
 cgacttcgag tccctcgacc gcgcgctcgg ggacgcgctg ttccggcccc tgccggtggc 360
 tg 362

<210> 17300

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H2

<400> 17300

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 ccattatggc acgttcgcat gaaggctatt tgtgtgttaa aagccattgt aaggaaacag 120
 gatactgac cttactctat catcgcttca tatttactg agaacacagc ttctgttgtt 180
 aaatgctctg agctgacaca ggtttctctc agatagaaag cctcaaaggc cttgaatatg 240
 ctgattgggg aacaacctac cggaaccgca gcaacataag ctgcgatgcc cacacctgtt 300
 cagatgcctg atttgatcca tacaggtgat caagatgatc tggcaacaag ttctggacat 360

gcatgcattg aacagaattc tgggaacagt gcatatgttt cctcagttga tg 412

<210> 17301

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H3

<400> 17301

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tgcggctgag gttgttaatt tcctgtcaca actgatgggtg ttcttgtggg tgctgtatta 120
ccttattact gtggaaggat gtggagctac agagcaaatc attgatcttt tgccagtgtc 180
aaaacaagta aaggaccgct gtgttgacgt catggatcat gccatcagta atgtattgtt 240
ggccactgcc aagattgcc aattccatgg ggggctgaca tggatagtgt tcaagttctt 300
caaagtgcac ttgtgtaca catcaactgt gcttgcattc ataagtgcac ttgtgccaat 360
acttcaattt tggctgtcct cgatat 386

<210> 17302

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H4

<400> 17302

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gcgcactctga cagctgcagt tgtctcaaac gaccgctat tcctgcagga tgtacctggg 120
acatccgtta acgggacatc ctacgccgga attcgagcga cgaccacggg cgctccacag 180
aaccactggt ttggcacggc cggtgattcg cgaggcgcac ggatcgggac tccggaagcc 240
atcaaacttg tctggacctg ccacaaggaa gtcatatatg acatcggggc cgttgccaac 300
agctggg 307

<210> 17303

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H5

<400> 17303

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agcgtgtac cagaccgatc cttctggtac cttctctgct tgggaaggcga atgccacggg 120
aaggaaactcc aactctatgc gtgagtttct ggagaagaac tacaaggaga cctccggcaa 180
ggagaccatc aagcttgcta ttcgtgcact tctagagggtt gttgaaagtg gtgggaagaa 240
catcgagggtt gcagtgatga caaagaagga tggctctccg gaa'cttgagg aagctgagat 300
tgatgaatat gttgctgaga tagaggcaga gaacgctgca gctgaggctg caaagaaggg 360
tggtcctagg gacacctagt cc 382

<210> 17304

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H6

<400> 17304

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cccgcccggc ggagaccggg tccgcagcca acgcgtgacg tagggaggac acgcagccat 120
ggccacttcc tctcgtcgc tcacaacgct ccaactccgc ttctctctc ccacccttc 180
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ccggggcatt gacctcgacc agagcacaat tgtggccatt tcggtgggcg tcgtcagcat 300
cgccgtggga ataggtgtcc ctgtgttcta cgagactcaa atcgacaatg ccgccaagag 360
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<210> 17305

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H7

<400> 17305

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ctctctcctc cctccagctc tctccagccg cgcgtctccc tgctcgctgc gttcttcttc 120
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cgccctggcc cgccgtgctc tgctcgtcaa tgcccgctga gcggtgagct ctctgccgcg 240
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ccagcttgga tcttcttccc gctcggtcgt ctgcctctcg cgctcggctc cctggagtgg 360
atttctcgc cgtggagctc agcttgtgta ttgtccgccc 400

<210> 17306

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-H8

<400> 17306

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acgtccacgg tcatgagcct gctcctggtg cgcccaaaag tcaagctggt catcacagt 180
gccgtggacg acctcagcgt caggggaggg cgcgctctgc gcgtcatcag caactgggcg 240
ctcgtgtcga tgatccacga cacgcagtcc tgcattggacc ccaacgtcat cggcgccaga 300
gtcgtggtca gctcctgctg ccacgatcga cccttccgct ccaccgga 348

<210> 17307

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A1

<400> 17307

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gctgaggcag gattacgtgc tcaagaggaa gaggatgagt ttatgtcaca ggccgccgca 180
gaggtagagg cagcttatta caagaagaag tctgatgagg ctgacgctga ggatgagcta 240
ttctccaag ctgcagatga agcagaagcc aattattaca aaagaactgg tgacaagtgt 300

gatgcaggac aatgcagcaa gtggaatgag gttgttgttg aggattgcgc gacggatgac 360
tccgaagatg agttactcat agattgtgat tcagactgga gaattgaaga tttga 415

<210> 17308

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A10

<400> 17308

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gttgaactat gagcgccgtg gcggtttcgt cgctcgctgaa cccggacgcg ccgctcttca 180
tccccggcgc gctgctgcag gtggaggact tctcgccgca gtggtgggac ctcacacca 240
ccactgectg gttccgcgac cactgggtccc gcgagcgcgc ccacctggac gagatggccg 300
agcagatcga cgccgccggc ctctccccg acgacgagga cctcttctac gacgaccagc 360
tcgagcaggg ccccgctgcc gccgccctta agacaga 397

<210> 17309

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A11

<400> 17309

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catcttgttt tcaatgatga tatccagggc acagcatcag tggtccttgc aggtttgtta 120
gcagcactca agatgggttg tgggaccctg gcagagcaga cgtatttgtt ccttgggtgct 180
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gtccaattg aagagtgccg caagaagggt tggctggtgg actcaaaagg tttgattgtt 300
gactctcgta aaggctccct tcagccattc aagaaacctt gggcgcatga gcacgagccc 360
ttgaaaacct tgtatgatgc tgttcagtcc atcaaacta cagttctgat cgggacatct 420
ggag 424

<210> 17310

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A12

<400> 17310

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ccatggcgctc cctctcctct ggcgccatca ccgccccttc cttcacgggc gcgcccgtc 120
gcgcagtggt cagcaagagg tccttcaccg tgcgtgcctc tctccgcaag gccactgcca 180
ccgcgcgcgt ggccgttgcc gccagcgtec tgcttgccgg cggcggcgcc atggcccagg 240
aagtgggtgct gggcgcaggc gacggcgggc tcgtcttcga gccagccag ttcacgtcga 300
aagccggtga caccatcatc ttcacgaaca acgcccggct tcccgcacag cgtcgtgttc 360
gacgaagacg atgtgccgag cggcgtcgac gcgtccaaga tctcgagga ggagtacctc 420
cacgcgccag gcgag 435

<210> 17311

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A2

<400> 17311

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tgaggcaacc acattggttg acctggcctc ccagtgccta cagtatgagc ctagggatcg 120
ggccaacact aaaaagctgg tttccgtact cgagcccttg caaataaaat cagaggtacc 180
atcctacgag atgcttggca ttccaaaaca tgaggaagaa gcgcctcccc ctccacaacc 240
gcaacgcctt ctctctccca tgggtgaagc ctgttctagg acggatctga cagctatcca 300
tcaaattcca atgaacacgc attacagga cgatgaatgg agcatcgagc tatcgttcca 360
ggaatggacg cag 373

<210> 17312

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A3

<400> 17312

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caatgatgtc tgatgtgttc tcttttggaa tcatcatcag tgagatcatt accgggagga 180
g 181

<210> 17313

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A6

<400> 17313

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aagaacgttt ccagcaagtg cttcatcagt tgatcaccga ggcaccagtg acaacgcagt 180
atcttttctg gactgccact cttcctcttg acatctataa caaggctcgtt gaaacctttc 240
ctgactgtga ggtgatcatg ggacccggtg tccaccgaac aagctctcgc cttgaagaga 300
tccttgtgga ctgcaacggc aaatgaccac gaagaaagag atccagaaac cgccttttctg 360
aaca 364

<210> 17314

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A7

<400> 17314

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ccgctcgcgg cgccgctgca ggcattgggt cgcccgccgt ctcccgccgg tcgcccgcctc 120
ccccctcgt tctgcgcccc tgacacctcc ccagctctca ccggcgccgt caagacccca 180

ggccagtctc attctgagga cgcccggcca ccacgctcgg gtgaggccgc ctcgccctg 240
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 caccggccgc cgctgaaccg cgcggtctct tctcggcct cggctctggc gccgccggtg 360
 atcaagtcgc cg 372

<210> 17315

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-A8

<400> 17315

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 ggttgctata aggaacataa gaagagatgc aatcaaagct tatgataaac tagagaagga 180
 aaagaagctt tctgaggaca atgtgaaaga tttatcagct gatttacaaa aagtcacaga 240
 tgagtacatg aaaaagatcg aatccatcca gaagcagaag gaacaggaac tgatgaaaat 300
 ttagacctca agctgactgt atggctgggtg aggagtaacc gcctccgtga agcatggacc 360
 ccggcatatg ttggtgtttc tgaagcaatt tgtttg 396

<210> 17316

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B1

<400> 17316

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 gggcgtggcg tacgacgagg ccgaggacta cgtggtcatc aagcacgccg cgctcttcac 120
 gtccacggtc atgagcctgc tcttggcgcg cccaacgtc aagctgttca acgccgtggc 180
 cgtggaggac ctcatcgta ggggagggcg cgtcggcggc gtcgtacca actgggcgct 240
 cgtgtccatg aaccacgaca cgcagtcctg gcatggaccc caacgtcatg gaggccaagg 300
 tcgtggtcag ctctgcggc cagcagggc cttcggcg caccggcgctc aagaggctcc 360

aggacatcgg catga

375

<210> 17317

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B10

<400> 17317

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cggcgattct ccgatcccaa ccagactcat ggtggcggtc atggcgagca gcggggccat 120
gaaggcgctc agcaggccaa ccttcgtcac ccctcgtagc ttctttaact ggggcaaaag 180
cgcgagagaa accgagacgc cgccgccgca gctgcagttc tcctaccacg acgtcgagcc 240
accgttcccc atgtcgctcg tggcaaaaac acacctcaga gaccgtgagc tcagggtgctg 300
ctacaaggcc accgtggacg gcttcagtgc tacggacttc caccggcggt gcgacttcaa 360
gggcccctgc gtcgtcgttg gctacaccga cgggtggcttc 400

<210> 17318

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B2

<400> 17318

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ctggagagtc ttgagcgcaa ggaaaaggct ttgagtgatg atatgaagca caagcaaattg 120
gaaaatgatg aatttctgaa gggagaacgt gctgatgttc aacgtaaatt gcaactcaaa 180
cggcataaat tggcgatgga gatggagcaa aaacaagcca cgaaggagaa ggaagtggaa 240
gaaaaggaaa atgagttaaa taagaaaata gattttgttg aaaataaact ccgacatgca 300
attgagttga atgagtccaa gattgagaag ttattaatgg agaaaaggga ggtgcagatg 360
ggaagagaat tactgctgga gggaaagaaa caaacggag 400

<210> 17319

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B3

<400> 17319

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cgcttctcc tcgcccctctc gctcatcgca tcagcgaccg ccgtgcccgc tgtcatccgc 120
acgggtcccgg acgacccac cgcgggctcc tctggcgccg cagacgccgc ggacgccctc 180
ttctgtgaca actggaagct gtccgtggag actgccaacg ccggcccctt gagccccctg 240
ccctcgcgct gtggggcttt cgttcgggac tacatggatg gacctcgcta cgcgtctgac 300
tccgccgtcg ccgacgccga cgccctagcc ttcgcctccg aagccctggc cgccgccgag 360
tggggcgggt cggcgagcgc caaggcttcg tgggtgttcg acgtccacga 410

<210> 17320

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B5

<400> 17320

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ggtgtctgtc tataatctaa cctccatgga tgctcaacct ttgtcatgta acaataatca 120
gtgtactctc tcattacata attttgatgc atatctgttt aaaaaaaaaa caacaataga 180
aaatcagaaa agaacaaaag aaaaaaaaaa atagaaaagg gaaaaaaaaa aaaggggtgg 240
cgctctaaac ga 252

<210> 17321

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B6

<400> 17321

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cgactgggac gagcgcccc cgcgcttctg caggcgagca ccccgccacc agtcggagat 120

gaacgcgtcc aggaaatcca gccatctctc cagcaaggac agtgcagaga ccgcgagggg 180
tattcatcacc acgtccggcc aaatccaacc cctcaaaatc ccggacgctg ttgctgcgct 240
cgcacagget gctgcaaagg caaatggtga gaccgagaaa tatcttccag ggtggccgtt 300
gttctcgctt cctaaggtgc agttggacaa gtgtaccaag tgctccagag aattctgttc 360
tgcaatcagc ttccggaggc acacacgtgt tcatcgtag 399

<210> 17322
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B7

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cggcatgacg agcgctccg aactcttcac cgcgcgccgt gccgccgtg gggcccgctt 120
ctccgacctc aacctgggat cgaaggccga cgcactccgg gacgagcagg gccgtgcggg 180
cccggaaccg gcgccccggt tcgcgccgcg aagccaattt gaacgcgtcg gggaacgtgc 240
ggcaacacgt gcacaccggg gccccacac cgcgtcgccg cgggt 285

<210> 17323
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B8

<400> 17323
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tcatcgcttg gcaaggcgga ggtgtctgat ggtgaggaat ttgaaactga cagtgaagat 360
tctgatgtga gtggttccga gggagaggac acgtcctgga tttcat 406

<210> 17324
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-B9

<400> 17324

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cactggccat cacgatggcc gtcaccatgc gtgcctctct tcgcaagggc agtggcaccg 180
cctgcgtggg cgttgccgcc accg 204

<210> 17325
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C1

<400> 17325

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tgctgtccgg cgacatcccc ccgagccaga ccatctacct caacaacctc aacgagaagg 180
tcaagaaaga acaattgaag agatcgcttt atgccttgtg ctcacagtat ggaaggatac 240
tggatgtggt ggccctgaaa acacaaaaac tgatagggca agcatgggtg gcgttttagcg 300
aaattacagc tgctaccaat gctttccgtg gattgcaaga ttttgatttc tacggc 356

<210> 17326
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C11

<400> 17326

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cactcgcaag gatgaggtgg tgacacgcga gtacactatc aacctccaca aacgcctcca 120

cggatgcacc ttttaagaaga aggcacacaaa tgccatcaag gagatcagga agttcgctca 180
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 tgaggaagac gccaaaggagg aactctactc tctggtcaca gttgctgaga tcccaccgga 360
 gggctctcaa ggtttgggaa ctaaggttgt tgaggatgac ggataagccc tgtataccat 420
 gagata 426

<210> 17327

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-Q05-Q1-E1-C12

<400> 17327

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 cgtaacgaca gtgctgttcg tgggcgtcac accggggctg ctctcaccg tgctcgggcc 180
 ggcgcgcgct ctgagagttc ggcagctatc acaccaaccg cctggccatc ctgctccaac 240
 ccgctctcta cttcgcgctc atcagcatct tctcctcgc tagtcggatc cacgttt 297

<210> 17328

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C3

<400> 17328

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 tgtcatggtc attgttctac ctcacctttg ctttgtgtta gtaccacca ttgtgatttt 180
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 gaagaaagat gactaccgta agaacaggag acagatagaa catgaaaact tttggaacgg 300
 tcgctggatt aacaaatttc tgtgtcttct ctgcgtggtg gttctatgca aacattggaa 360

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407

<210> 17329

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C4

<400> 17329

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cgctacgcgc agcgtgtcgg caccggcgcc cccgtctacc tcgccgtgt cctcgaatac 180
ctcgccgtg aggttctgga gctcgctggg aatgctgcca gggacaacaa gaagactcgc 240
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ggcggcgtga ccatcgctca cggcgggtgtg ccccccaata tcaaccctgt tctgctgccc 360
aagaacaccg cggagaacgc gtccagtggc ggggagc 397

<210> 17330

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C5

<400> 17330

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gttggcgaac ctgatggacc aacatgcctc tactagagtg catgtactgg tggtgccggc 300
ccaccactat tgactcggcg ctctttctac gtcgtgggga gga 343

<210> 17331

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C6

<400> 17331

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tgtcagcaac gtacgggtat tgatcgagtt tgacatattc caagaaggac aaagaccaat 180
gcatgagaag atggacaatg tgacacagaa taatctctgg aaaatagata cttggaagca 240
tcacgtcaa acaagactat tatgaggact acaaaagccg cccgcccgtt cgacagcgag 300
ctataaagtg accggaag 318

<210> 17332

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C7

<400> 17332

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ctctacttat atatggcttt aagcttggca taactggtgc tgcaatttct acagttgtgt 180
cccagtacat tattacagtt cttcttattt ggtctctaag taaaagagct gttttgcttc 240
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gaagaactct ttcaattctg ctaactatga ccattggtac atcaatggct gctcggcaag 360
gccaacaac gatggctgct catcagattt gtttgcaagt atggcttg 408

<210> 17333

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C8

<400> 17333

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<210> 17334
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-C9

<400> 17334

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cgacgcaggc gccacacatg gcatcccagc tctccgccgc cgtgcccccg ttccacggcc 120
tccgggggcta cgccgcgccc aggtccgcgg tggcagcgct gccgtccgtg agggtgggca 180
ggaagaggtc ctcgtcgcat ggcattccgt gctactacat ctgctccgcc accagcctga 240
tcatgggtgac gacgacgacg ctgatgctgt tcgcgggggc gtttcggctg gcgccgtcgg 300
cgaatcccag tgcgacggcg gggctgaagc tggcgggcgct ctactcgcg ctgcagacgg 360
gtgacgcgcg cgggttcaag ctgcgcgaca cgctggcctg cggggcc 407

<210> 17335
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D1

<400> 17335

agcctgtaga gtgcggggag caggagccgg cggagccatg gcgaccactc tttcgttatc 60
ctctccccctc ttctcggag ctccggccag agctagagat gtggttccgt acggagtga 120
ttcggttagt gtatcactga tgactctaaa tatgccaggc aagggttaca cgagtagagt 180
tcgttgtcgg gacgacgacg gacgaacgac aatagtatct atgcttggaa ggaaatcaac 240
ggctagagca actgttgtcc cagaccccga ctataggtta ccaatcgcta tacttgggat 300
tgctagtgtc tttgcatatg ccgacaatct tctcgctgct gcacctgtag gactgctggg 360
gcttcttctt ttgttccaga ctacaaaaat gaggttcgt 399

<210> 17336
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D11

<400> 17336

cccagccgtc cgagaagcac tacactacac tacaccacac ccacccgacg acgatcacac 60
acgcagaaga tcgagttcgt tcgatcgtga ccgtgacgca cgaagctata agctagccaa 120
gacatgaata ataatggcgg cctctaccgt ggtgagcctc tctgtcccgg tgacgacgac 180
gaccttcgcg gtggctggcg gcggcgacgt gctgatcgtc gtcccagga gggcgggccc 240
ca 242

<210> 17337

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D5

<400> 17337

cgacgcaagc gtctgaagag agtcatatca cgagcggcct cccttttttt tttttttttt 60
tttttttttt tttttttttt tttttttttt tttttttttt ttttttctgt aaatcactct 120
taattccatt agatctcgag aattagagca agacagacag tattacatcg tgctgctgct 180
gctgctgcta cagatacaca cacagcagga ggagacagga aggttttcgcg agaccaggct 240
ccctcgactc cccacggatt agaggatgag ttagtcacat taccagagag tagttaccga 300
gtcttggcag tggtaaaaag gaggggaaca ggagagagag gcgaaaatta tcaatttcga 360
gggagagaat agcaggatag cacgagaggc acttcatggc ggggtgg 407

<210> 17338

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D6

<400> 17338

agcctcggtc cgcacccggc gtgcctactt ctactgggtg acccgggagc aggggtcctt 60
cgagtgggtc cgcggcgtga tggacgaggt ggcgacacg gacaggaagg gcgtcatcga 120
gctgcacaag tactgcacca gcgtgtacga ggaaggggac gcccggtccg cgctcatcgc 180

catgctccag tcgctcaacc acgccaagca cggcgctcgac gtggtgtccg gcacccgcgg 240
tcaagaccca cttcgccaga cccaactggc gcaacgtcta caagcgcatc gcgctcaacc 300
accagaacca gcgcgtccga gtgttccact gcggcgcccc ggtgctgaac 350

<210> 17339

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D7

<400> 17339

accacgcgtc cgcccacgcg tccggggacg aggacatgga cctggtgatc ccccggtgtt 60
caacggctgc ,acccgattgc tcaacgccga ggaccagaag gtggcacgag aectctactg 120
ggaggcggta tgcggcgagg aggcgtcgga ctggctcaag gtggaccacc tcctccagca 180
gagcattgcc aataaccctt ttgtggggga accacacctg gtgcttgccc agttgtacct 240
taacatggaa aggtacggca aggcgcatat ccagcgc 277

<210> 17340

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-D9

<400> 17340

accacgcgtc cgcggacgcg tgggagcgca ttcgcgattt tggccgcctc cgccgccgtc 60
cgggaagatg gcgggtctgg gaaaggcgat gtacgcggtg gggttctgga tccgggagac 120
tggccaggcc ctgcaccgcc tgggctgccg cctgcagggc aagtacttct tccacgagca 180
gatttcaagg catcgacca tcatgaatat ctttgacaaa acccctcatg tgcataaaga 240
cgcatttggt gtcceaagt catcccttat tggatgatgt caagtcgggt caggagcttc 300
catttggtat ggggtgcgtc taagagggga tgcaaacatc atacaaattg gatctgggac 360
caatatacaa gacaattctc ttatacatgt ggctaaatct aatcta 406

<210> 17341

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E10

<400> 17341

tccgaggacg catgggatcc ggaggaggtt ttctataaca cagctcagta ctatagggca 60
taccatggac ataaaacggg tctcgtgca gtgttgattg gtcgtcgtcc aattgtttca 120
gcatttcaat acattaagca gcgaacgagg tataaccagg ccatgaaaaa tgt 173

<210> 17342

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E11

<400> 17342

gtccgagaag aagacgactt ttggaacatg cttttgatca gctaagtttg cattctgaag 60
aacatctcaa aggaccgatt ctagtttcat ttactaatga gcatcgcgac gaacaggtta 120
gaatctgaag cggcggaact ttcaaagatt tcatggaaaa tactactcca gcggccttttg 180
gtgtgcagta ccgtctcttc aaggcgactg ccgattatct ttcgtagccc atcaccacgg 240
tcaggattgg ct 252

<210> 17343

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E12

<400> 17343

gtccgatgct gcataccctt caagcctgcc gaccatcgca tcatcggta tcgctagctt 60
tttttcttca cttctggctt gcgtctcttg tttgctgttg gattcataag cgcaaggaag 120
gacgagagat agagcgacga actgtcttgc tcggaactct cccacaactg ggctctgaca 180
tgagtaatgg gttctgagga tataaccgcg cgagcttcct cccgttctgc gtaccctgcg 240
acgtatgggc aacgccgggg gctatgacct gtcaccaaag aagagggaaa atgcgagaaa 300
agcaacggct gtaccatgat aaccaaggat gcatgtattg ctgtttgagt ttccgctcgtg 360

ttcacagaat cctctc

376

<210> 17344

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E3

<400> 17344

gtcataataa tatgcatgct cctcaactta acacagggaa aacaggtcag gaagaaagtg 60

aagggcttct tcaagcgcta tcctgatgct caaacagaat tcagaaattc tctaaggctt 120

acgttggaga agaatggacc tatatcactg agctttgtgg tgttggcaag tatgctgctg 180

atgcttacgc aagcttctgt gctggaaggg caaactaagt gggtccaaaa gatcacaaagt 240

tagtagatta ctggaattat gtctgttttg agttaccctc gattcagaaa tcgcaggacg 300

ctggagtgcg cgagctggga aaccttgcgc ctaaagtgcg cgaagttgct gtgagctgtt 360

gacatgggaa aacagtaacg cgggtgggaag cgcttttg 398

<210> 17345

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E7

<400> 17345

tagcatgtct ccaaccacta tcctcattga gaattgagag gcagactcta gttggaatac 60

aagacttgct tgatcagccc aatccagctg atcctgccc aactgatggt tatcacctat 120

tcattccagga tccaacagaa tataagcgac gtgttogtct gcaggccaag caatatcctg 180

ctctggtcgg aggatgttgg cataccacag atccatgac catcctgcac atccgcagac 240

tagttccaaa tgtgaaaatt agggctctca attggatttg acgggacata gggtgtcggg 300

aggattgtcc aggtgtaacc ggaaccttct atgatgtgta cga 343

<210> 17346

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E8

<400> 17346

aagatattta catgtacaaa gacttgatta ttgcattaac caaatgcaag aatatggagg 60
aaaccatggt aatcctgggg aaaaagagaa aatgacaatt gtttcctgaa tcacaaactt 120
aagcccaagt tataagaagg ttccttaaaa aatgggtccc aaccaattga aatgactatt 180
tacgaggaca tgaaaaagtc acctgatcca ccagaagatt taccttttag ggtactgtta 240
aagggctctt tacctcacc acctgtctaag aaatacattt aaadcaagat tttgaacaaa 300
tgttcccaaa aaaggcatat ctatgattct ccagaagaaa tttttggcat gactgacgt 360
atattcagag gcatgaatgt atttaccac tggatg 396

<210> 17347

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E9

<400> 17347

accacgcgac cgcccacgcg tccggtcgtg gatccccgcc ttcaagagcg acgccgagtt 60
catcaaccgc ccctggctcg acggatcgct ccctggcgac ttccgattcg atccgctggg 120
gctggggcaag gacccggcgt tcctcaagt gtaccgggag gcgagctga tccacgggcg 180
gtggggcgatg gccgccgtgc tgggcatctt cgtgggaaaa gcctggagcg gcatcccggt 240
gttcgaggcc ggcgccgacc cgggcgccat cgcgcccttc gccttcgggt cgctgctggg 300
cacacaactg ctgc 314

<210> 17348

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F10

<400> 17348

agcccggtgca acctcatatc atcccctgcc acgcacctcc gtccgccgcg ccattggaatc 60
gaggaggagg gccgtgcccc ccgtgacggc ggttgcggtg gcgacgctgc tgctgctgct 120

gatgtcgtcg ggcgtgggcg gcgacttcgc ggcggaccgg gcgagtgct cggagcagct 180
 ggcgggggctg ggcagctgcc tgacgtacgt gcaggagcag ggcacggcga cggcgccgac 240
 gcccgactgc tgcgcggggc tgaaggcggg gctgcagagc agccgcaagt gcctgtgcgt 300
 gctggtcaag gaccgggacg accccaacct acgcctcaag ctcaacgtcg acaaggcgct 360
 cggcctcccc gccgtctgcc acgcgcccgc caacatctcc gactgcccc aagctgctgga 420
 cctgccggggc 430

<210> 17349

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-005-Q1-E1-F11

<400> 17349

gtcgacccgc ccgtccgcag acgcgtgggg caagatangg tgtgggacga caaaccttcc 60
 aacaagaagc tggattttac agaccgggca gacgagagag gggacgaggt gacagacaat 120
 gtggcggtca tcgagggaga aagcatgatg gataaggatg aggatctgag cagcgacagc 180
 gaggacgaag aggtggaaga tggacccaaa aagaaaggat ggttctcatc aatgttccag 240
 agtattttctg gtaacaatgt attggagaag tctgatctgc agcctgctgc caaagctctc 300
 aaagataagc tgatggcaaa gaacgtggca caggaaattg cagagaagct ttgtgaatct 360
 gtcgcagcta gccttgacgg caagaagcta cgatctttca ctagaatatc atcaacagtc 420
 cagacagcta tcgaggat 438

<210> 17350

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F12

<400> 17350

tccaaactcc tcatgcatcc tacctccctg gtgcccgtca cgttcaccac gttcgccccg 60
 tcattcaccg gggcgctcgc ccagctcggc ctcccggcgc ccacggcagc caggcccccg 120
 ggccgccccg tcggtccgcc accgaagcaa cgaattgggt ctttttagtac ttgacagaaa 180

tacatatatt ccacgcatgg tggcgtcttt agacaatgtg acgggcttga ctttagccat 240
 gtcacgcagt gcattcattg gttcgagctt tgtgatcaac aaagttgggt tgaagaatgc 300
 tggggataat ggggtccgta cagcttccgg aggcctctca aatctatatg agcccttatg 360
 gtggttggga atgataacta tgattctatg cgaggttaacc aattttgcaa catatg. 416

<210> 17351
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F6

<400> 17351

accacgcgtc cgcccaacgc tccgggggtga agcaccgccc ccgtctccgc tgccgcacaa 60
 agacgagagg aagagggtcc cggcgccctcc accaccatgt cgtcgatgat gaacgcgctg 120
 gcgaactggc tggcgaaacc gcgccgaac ccgctggcgc gcctccacat gcacgccgtc 180
 tcctcgcgcg tcaggaaata cggactgagg tacgacgacc tctacgaccc ctacttcgat 240
 ctggacatca ttgacgcgct cggtagcgtg cctagggagg tggtcgacgc ccgcatccag 300
 cgccctc 306

<210> 17352
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F7

<400> 17352

aattcctctg ggtggtgcga gctcctctcg gcgacaaccc ggagagggag ttcggcgaca 60
 aggetgaccc ggacctgcag gcgctcctgc ccgaagggtt cctggagagg accagagggc 120
 gcggccttgt cgtcaagcta tgggcgccgc acgtggcggt gctccggcac aaggcgacgg 180
 gcgcgttcgt gacgcactgt ggggtggaact ctgtgctgga gggggtcacg gccggcgctg 240
 ccatgctctg ctggccgttg tatgcggagc agaagatgaa caaggtgctc atgggtggagg 300
 agctacggat cggcgtggag cttgctgggt ggcaccagca tgggttggtg aaggccgaga 360
 aactggaggc caagggtg 378

<210> 17353
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F8

<400> 17353

tcaaaagcta cccctatcc gatccaaccc tctggctgct cctccgtccg gccggcatcg 60
gcagtgcagg atggctctga ggatgtgggc gagctcagcc gccaatgcgc tcäagctctc 120
ggcgggcggc gccggagccc gggctgctgc cttctctatc tccaggttct tctccactgt 180
tcacgatggg ttgaagtaca ctcagtctca cgaatgggtc aagacgaccg gcgacctcgc 240
caccgttggg atcacgggcc atgct 265

<210> 17354
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-F9

<400> 17354

gtcgaccggg cccgtccgag aacagaaagg aaacaccgcc gccgccgcgc cttccattcc 60
agtactcgcg gaggaagga acaccagcca gcgccatggt cacgtcgacg accgccgccg 120
ccgtgctgtc cccgccgtcc gtggccgggc ttgcctggc gccgtctccc cgggcgcgcg 180
tggcggttcg cgcggcgcg gcgcggcggt ccgtggcggc gcgcgcggag ctgagcccgt 240
cgctggtgat cagcctgagc acgggcgtgt cgctcttctt gcgcgcgttc gtcttcgtca 300
acttcagcg ggagaacgtg gcgaagcacg tgcccagca gaacggcaag acgcacttcg 360
acgccggcga cgagcgcgcc aaggagttct cgggcctgct caagtccaac gaccccggtg 420
gcttcaacct cgttcgagtc ctcgcc 446

<210> 17355
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G10

<400> 17355

gtcaattggg aaagatgctt caggcaacga gctgcttctt gatgttggcc tttgggttatc 60
tcagaagata aatgaacatt tcaagaaaaa caagatgacc attaactctga agtacataga 120
tccaacgtac atgatacttg ccatcccaag caatgcttct gataacgtct attgcacact 180
gctggctcac agcgtggtcc atggagccat ggctggatat actggtttta ccattggcca 240
agtgaatggt cggcactgct acatcccatt ctataggata acagagaagc agaacagagt 300
ttcgataacc gacaggatgt gggcaaggct tctctcgtcg acgaaccagc caagcctcct 360
ttgcaacaaa gtcgtcgagg ag 382

<210> 17356

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G3

<400> 17356

agctgttcaa cgccgtggcc gtggaggacc tcatcgtcag gggagggcgc gtcggcggcg 60
tcgtcaccaa ctgggcgctc gtgtccatga accacgacac gcagtcctgc atggacccca 120
acgtcatgga ggccaaggct gtggtcagct cctgcggcca cgacggggcc ttcggcgcca 180
ccggcgtaaa gaggtccag gacatcggca tgatcagcgc cgtgccgggg atgaaggcgc 240
tcgacatgaa caccgccgag gacgagatcg tgccccctcac gcgcgaggctc gttcccggca 300
tgatcgtcac cgggatggag ggtcccgaga ttgacggcgc ccccaggatg ggcccgcact 360
tt 362

<210> 17357

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G9

<400> 17357

aagtctgtaa tcaaggctcc atgccgcaat gtacatttgc tggcatccca cttaactgg 60
caggaaccaa aaaaattttg gcattcatgg accgaggtga ccacggggcg aacggcacct 120

tcattaatat tggcccaacta ggtgctagag atgttccac ataatatgat atgtttgtcc 180
 tcattgctcc acagaatgct gttggcaacc gcacaattga tgatatcaga gctatgactg 240
 atgctgctgg tgatacacct gtcaatcttg tgaatcctcg 280

<210> 17358

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H10

<400> 17358

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 cgcaagcgt tcgagctcct cccacgggag ccattggtcac cgccacgacg tccccgctct 120
 tctccctctc ctccctccgc gctccctcc cttccccac ccgatttcac acgtctctct 180
 cgctccgagc cctctcccca cgtgctcgtc tctctgccgc cctccctttc gctcccccac 240
 tcgttttcagg cgggtaccgg acctggggcg cgacttcaat ctgctccgcg ggaagggtga 300
 gaccgccggg gctggagggtg gtgtgcgagg ccacgaccgg gcggctgccg gactccgtta 360
 agaagacgg 369

<210> 17359

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H3

<400> 17359

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 tgggtaccact caaggagcgg gaactgccat tctgaccctt cttgggggat tccatccaca 120
 aacacaaagt ttgtggctga ccgatattgc tcatcatcat ttagctattg catttatttt 180
 tctcattgcc ggtcatatgt atcgaactaa cttcggaatt gggcacagta tcaaagatct 240
 tttagaagca catactctc cggggggtcg attaggacgt gggcataaag gcctttatga 300
 tacaatccaa taattcgatt cattttcaat tatgccttgc tctaacttcc ttacgggtta 360
 ttactt 366

<210> 17360
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H4

<400> 17360

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tgaaggaggc gcgggggaca atatggctgc cgaaatggtg aaagcggcga cgagcgacaa 120
gctcaaggag atggattggg caaagaacat cgaaatctgc gagctcgtgg cgcaggatcc 180
tgggaaagcg aaggatgtga tcaagtctgt agagaagtgt ataggagca ggaggaagac 240
cagtcaactc tttgctgtta tgctattgga gatgcttctg aataagtgcg gagagcctgt 300
ccataaggag gtcattgaga aaggccttct tcgaatagtt gtgaagatag tgaagaaaaa 360
gacggattta ccagttcgag aaa 383

<210> 17361
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H5

<400> 17361

tcgcggggtcg acgcacgcct ctaaagagta tctgatcata tatgtattcc aatacggat 60
gaggattttc aatgcgggat ataaaaacat atctctctgt agcaccctg ctaagtactc 120
tatggtttgg ggctttacca cgtttattga taaaaatcaa tcgtttattc ccagatgctt 180
tgtcattccc ttttttttaa ttcgagttat tcctatgccg gagatagaat tcttcctgag 240
atcacgaaca tttccccctt ttga 264

<210> 17362
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H6

<400> 17362

caagtacgag atccaagggt tccaacccat caagatattc agggaccagg ggaagaacat 60
tcaggaatac aagggcccta gggaggctga tggcattgtg gattacttga agaagcaggt 120
tggccctgcg tccaacgaga tcaagtcacc agaagatgcg acggccctta tcgatgacaa 180
gaagatctac attgttggta tcttcgctga attcagcggc accgaattta caaacttcat 240
ggacgtccca gagaatctga ggtctgacta ccactttggc cacactttgc atgccagcca 300
cctcccacgt ggtgatgcat cagtggaaacg gccattggtc acgctgct 348

<210> 17363

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H7

<400> 17363

agacactgcg gccgggcatg ggcgagcgtg gagggcaaga gggagacggt gctggtcacc 60
ggcgccagcg gcttcacgag atcgaccctc gtccgctctc tcttcgaccg cggctacaac 120
gtccatgccg gcgtcctcaa ccccgatgac aaggcggaga cggagcacct ggtcgccctg 180
ggcgccggcg ccggcgaagg ccggctgctc gtcttcccgg gcgacctcct cgacggcgcc 240
ggcgtcatgg ccgcccgcgg gggctgctcg ggcgtgttcc acctcgccag cccctgcacc 300
gtccaccccg tgagcgaccc gcagggggcag atggtggtgc cgggggtgga aggcacgctc 360
aacgtcctgg cgcgccgcca agggagcccg caccgtgcgg cgggtggt 408

<210> 17364

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-H9

<400> 17364

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tctctcttgt tcttctcgcc ttctgccgga gtgatggcca gcctcaccga cctcgtcaac 120
ctcgacctga gtgactgcac cgacaggatc atcgccgagt acatctggat tggaggatcc 180
ggcatagacc tcaggagcaa agcgaggacc gtgaaaggcc ccatcaccga cccgagccag 240

ctgccgaaat ggaactacga cggctccagc accgggcaag ctcccggaga ggacagcgaa 300
gtcatcctct accctcaagc cattttcaag gaccggtttc aggaaaggggt aaccacatcc 360
tttgtgatgt gtgactggct acaccacaa ggcgagccaa tcccaaccaa caag 414

<210> 17365

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A10

<400> 17365

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ccttcgtcca cacgaccgcg cgctcggaaa actccgcgga gggcgaagga ggcgaaccaa 120
gggcgacgta tccgccgccg gagaaggtag ccttcgatcc gccgtctccc gcgattcggt 180
tgtcttgcca cagctgggcg accgtcgteg ccgccgccct tctccagggtg ccaggtctt 240
cgccgggtccc ttgcccgcct ccttgccgcc gacgagcacc agccaggaag aaaagaagct 300
gaaccatggg gaagagaaag tcagctgcta agccacctcc taagaagcgg atggacaagc 360
ttgacactgt cttttcctgc ccattctgca accacgggag tagtggtgag tgccgaattg 420
acatg 425

<210> 17366

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A11

<400> 17366

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agaccgacta gcaaaaagag gactgcctca cctcaattt tgtatacttt gtgatcaaga 120
ggaagaaaacg ataaaccact tgctggtttc ctgcgttttc tctcgggctg tctggtttca 180
gatgatgaaa tctgttgggt tgcagcatct tgctcctaac cctgcgtgct cctcctttga 240
agattgggtg gaaggggttg ctgcattttc tgctgggtcta gtaaacacag ggctgcacaa 300
gggcttgaat tctttgatca ttattgggtg ttgggccatc tggaatcacc gcaatagctg 360

tgtttttaat ggtgtgcagc ctagtcaaag catggtcac aattgggtca agg 413

<210> 17367

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A12

<400> 17367

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ataggaactc catctggttt tgtcaaggct cagcagccaa aaaactgaat attgatttgc 120
cagaaactga aattgtagaa acacacagga accatagtgc aaggatcact tgtctgagggc 180
tatttcctct gattgatacc ccaactgtttc gaagtgatac acaaaaaaat gaaaaagcat 240
tagtcacttc aagcacagac agaacaatcc gtctttgttg gaagggttat tcacgctgtt 300
acaagggccca ttcagcgcct gtgactgctc tggctgacag attgcttatg gatggtgaat 360
ctaaactgct tgcaagtgga ggggaagact gcaccattcg cctatggtct atgagtacga 420
aggcgaaaaa tcaccactg ctagcaacat t 451

<210> 17368

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A2

<400> 17368

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cacgggaact cctctcagtg ttccagtcgg tggagctact ctgggaccaa gttttaacgt 120
tcgtggggag cctagtgaca atttgggtcc tgtggatagt aatgcaacat ttcgtattca 180
tagatatgag cctgccttta acgaattaga tacgacatta tctatctttg aaacacgtat 240
taaggggggtc gatcttttaa ctctaacga cgtggacgaa aaatcagact gtttg 295

<210> 17369

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A3

<400> 17369

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ctgttgcatc acttgcatg tcagtcacta taaacgagga tgaggaggaa gatggggata 120
ccgggagtga tcaacaaccg aaaggcagga agctgtgggg gcttgcgtc tgccatcata 180
caagcccgag gttcgtccct ttcccactaa ggtatgcttg cgagtttctc ttgcaagtat 240
ttggcagaca 250

<210> 17370

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A8

<400> 17370

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cgctcctccc tgctgccgct cgcgccagc tccatcttct cctgagcgcc cagccgaggt 120
ccctgtgcca tcgccgct ccagctccat ctgccatgg ccgccgcgcc tgctccctgg 180
ccggcgctcg gcttcgaact cgcctcatct ccctggtcgc gttggtttcc tgggcgtgtc 240
tctcttccct gctggcagcc acgctaact tctggccgc gacctcgctt tgctctctac 300
gtcgtgttcc gccgggtcaa gcctcatgtt gtcgcgtcct atttctgct cgccagtgtg 360
ccctcttggc tcgctcggct ttaagtccca atcgcg 396

<210> 17371

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-A9

<400> 17371

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ctggggcacc gtcgtcgcca cctggtacga cgtgccccgt gtggagcgcc acgtcgct 120
ccctggcctt atccggacgc tcaagatgtg cggcacctac ggggccacct tcgccaccat 180

cgggggcctc tacatcggcg tcgagcagct cgtgcagagc cagcgcaaga agcgcgactt 240
 cgtcaacggg gccgtcggcg cggttcgttg cggagcctct gtctgcggct acagaggaaa 300
 gagtattcag tcagccctca tcggaggctc ctgtctggct ttcacatctg ctgtgctgga 360
 cattggcggc aatacgacca gagttgacaa cggcaaagag tactatgcct acacaac 417

<210> 17372
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B1

<400> 17372

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 gaagaactcg atcaagaagc tcaccgcgtc gctgaagaag tacgcgccc acagcgcccc 120
 cgcgctcgcc atcaacgcca ccatacgagaa gaccaagcgc cggttcgaga actacggcaa 180
 gttcggggctg ctgtgcggcg ccgacggcct gccgcacctc atcgtcagcg gcgaccagct 240
 gcactggggc gagttcgta ccccgggcct gctcttctc cacatcgccg gctggatcgg 300
 gtgggtcggc aggagctacc tcatacgccat cagcggcgag aagaagccc ccatgaggga 360
 ga 362

<210> 17373
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B11

<400> 17373

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 ggtacaaaaa ctctttggtc ggatcggtgc tctggaaagg ttactgtctt gggaggcaat 120
 gcaaatttct gggctgttgg atgcgaagat ggtttcctgc aagtttacac aagatgtgga 180
 gtgcgagcaa tgccagcagt gatgatggga tgtgcagctg tttttattga ttgtgacgag 240
 tcctggaaat tgcttcttgg cacaaggaaa ggtctaattg acatatggaa cctttatgat 300
 aggacctgca ttttgcagga ctcttaaac tgcgttgggt gcatacgag atgagtgagc 360

tgcaagaaat gctg

374

<210> 17374

<211> 148

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B2

<400> 17374

cgtacgtagt gcaacgactg tcgattcggtt ggggtgaggaa catatatgtg aatgcaaact 60

ccggggtaca tacatgtgta atgtgtaata catatatata caaaactgcc gaggcgccga 120

caatacttta ataactgggc cttttaat 148

<210> 17375

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B3

<400> 17375

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cctgagatcc tggatgatcca gggaccgaaa cctgggaagc caacgggcat ggcaccgatg 120

ccgcagatat tgctgaagct gaaacacact cgcccaccac acaggaaacc aactccgcca 180

cctgccgcag ctaccggaaa cgatggagca ccaactgccg ccggaaggat ggagctaagc 240

c 241

<210> 17376

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B5

<400> 17376

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gactgttcta ccatctgtat aaccagattg ctacaaacac cttggagcga gtggctcctc 120

tgacacatgc tgcgggaat gtgttgaaac gtgtttttgt catcggtttc tcaatcattg 180

tttttggcaa caaaattagc acacaaactg gaattggcac gtccattgcc atagctggtg 240
 ttgctatgta ctcttacatt aaggctaaga ttgaagagga gaaaaggaaa aagagcgcat 300
 gactgctgtg aataatatta tcgagacctt cctcggacac aacatcgctg acaatcacga 360
 cctacttcta tategtggtt tgttttcatc ttgagtcagt cggccaatg ttggtc 417

<210> 17377

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B6

<400> 17377

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 gggcgtggtt cgggaggtgg catatgtgtt ccaagtactt ccaatgtgcc accggcggag 120
 ctccatgcc cacagcttat acagctcaaa gaaatgggtc tcattgatgc tgctgagaac 180
 atttcagcag tgctcgctac cgctgggaat gtacatgatg cggcggagcg tcttctcggg 240
 aaccttgggg agtagctaaa accagcgatg ccacacaccg ccagtaaata ttaaaatgtc 300
 ggcacatctgc acgagtgttc ggcttaa 327

<210> 17378

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B7

<400> 17378

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 tgccaacgga gatgaagatg ttggtgtgaa ggctcgtgtc agagtgcaga acagtaaagt 120
 atctagggcc tacaagcaag ctgaatttga aatcagtttt ggggaggggtg ttagtaaatt 180
 ggggtgcgtt cttgattgtg ctgaactga 209

<210> 17379

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B8

<400> 17379

actgcttctt cggttttcag gagcgctcggc cattgctgct ggaaaagcag accattggga 60
ctccctcgtg cgtttttccaa atcagtcagg ttgatggcga tggagggacc agttttatgc 120
cgccctgcaa tgcaagccaa atcgcttctg gctgcgctgg tcaacaactc cctgaccaga 180
ttcgggcagc ttgggaccat ttcaaaatac aggaacgttt caagattcat ttctcccatc 240
tctcagccat ctaccaagaa cataggtcca tgctgtgact tcagctcgtc ttctgaaggc 300
aatggataca tggctgggaa ctttagcgac agtga 335

<210> 17380

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B9

<400> 17380

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aaaagaatga tacaccaaga gaagggtgcta aagagacaac aagtaaaactt tctgctgctg 120
cggctccatt caatccatcc agcgtaccag cttttgggtc aatggctgtc ccaggtttca 180
gagaacatgg agggctattg ccatcaccag ccaatgtgcc ccctatgctg tccatccctc 240
tccgcaagca ccctcaccaa tctgcaactg caagggtacc ttatgggtcca cgtctggctg 300
gaggctacaa tagatcaggg caccgaggac ttcgtaagaa gcctgtgttg acaagtgggtg 360
aggcccctac agaaacaaac acgtctggcc ccaggattat gaaccctaac gccccagagt 420
ttgttc 426

<210> 17381

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C1

<400> 17381

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ttcggatgac aaagtcgacg atgaacccca tggagtaaac gacgacgttg ttgtatccac 120
cacatggaga cgaatgacga caacggcaca acggcacgag cagaaaggct tggccagggc 180
acagtccgag ccggttgacg gcgagcccgga ccgtcataga tcaaggctga cgctgacgga 240
cagtgaccgg gccacaagca agctgcccca actgatggcc tgggccatgg agagcaaggg 300
atgggcg 307

<210> 17382
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C10

<400> 17382

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cagcgcaacg ccgagctcga cccggagaag aggctgtacc ccggcggctc ctacttcgac 120
ccgctcggcc tggcggccga ccctgagaag aaggagcggc tgcagctggc ggagatcaag 180
cacgcgcggc tcgccatggt cgccttcctc ggcttcgccc tgcaggccgc cgccaccggc 240
aaggggcccgc tcaacaactg ggccaccac ctgagcgacc cgctccacac caccatcttc 300
gacacgttcg gagggtcctc ttaagcccgc cattgctccg ccccgccat cgagcggccg 360
gaacgtgttc ttggatta 378

<210> 17383
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C11

<400> 17383

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ctcgagaagg gcgttcctcc acgttggtgg cctaccggca acaacaattg gtggccgcaa 120
tccggaattc caatggccaa gggccaaccc ccttcaaa 158

<210> 17384
<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C12

<400> 17384

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gcaccacagc tcggcgtcag cggactccga cgacgcacac attccatggg ttctcggggg 120
ggagggttcag cagcatcatc atgtacctgc atggaagcg 159

<210> 17385

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C3

<400> 17385

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gaagtgaatg ctgctaccct cgatactgat ctaaagtgtg tggcggctcc tccattcatc 120
tatatcgatt aggtcaacaa ttactaacg ggtcccattg aggtttctgc tcacaatgtg 180
tggattggga aacgaggagc ctacacccga tagatcagtg cagaacaact gggggacatc 240
agttgtcaat gggttattct tgga 264

<210> 17386

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C5

<400> 17386

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tccattctac cgccggcgac gccaaagttc ttgggcctcc tcatcggcga cttttccgcc 120
ggcgacagga aacaacgaac caaaccactt ctctgtccag aggcgtcccg ctctctctt 180
cgccccctgc tgttgaagat gaggaacctc aagttcaatg agcagaacct cctcagaagg 240
gacaatttct tggagtacaa aaggaggggc ggccaccgca aggcgctcgt aacacagggc 300
tacggcccct tggaaaggga cgactacaag aagtacaatg ggatatgctt aatgggtgaa 360

aagctcgтта аааtcатааа gcagatg

387

<210> 17387

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C6

<400> 17387

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aacaaaagga aagccatcca agttgcataa aaggaaacat cagattgggtt ctctgtactt 120

tgagatgaag tcaaaggaga tggagcttgc ggagaggcgt tctaaggga ttcttacgaa 180

agcagaagct caagcaaaat atggctggtg agggaggatg taaccgaact cagatacat 240

gtgtgggaac cgtagaattg agatgcgtga aattttgttg cacatttt 288

<210> 17388

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C7

<400> 17388

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tgatgtgctg tctgctggtc tattagaagt tgcaaatcct tctctctcaa gtagattctt 120

cctaaagcag cattggactg atggataaga tgatgtaaaa gactctatta agcacaggcc 180

cttgtgggaa tcttacatgc ccaaaaataa taaaggaagg agaggaactg gaaagaagaa 240

acatggaagt ctgtacagaa cttatgggag cagagtgatc ccagtttttg tattatcact 300

gggcggtgct gatgctgaac ttctcatgga agaggagatt cttgtttgga caagtaaaga 360

tgtt 364

<210> 17389

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C8

<400> 17389

atttcgctgt gaattggatg tataactttg accattgata tcttgggttaa tcagacgggtg 60
cattgtaatc ctggcctc 78

<210> 17390

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-C9

<400> 17390

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catcacacag ttttctgacc gccagataa tttgaatgat tcaggggatg gtggaggagc 180
cccagtattc aaatggttct ctgtattaga atttgagagt cttgccagg agcttgttca 240
gatgtttgtt tcagagcaaa agttgaagag gctgctactc ttggaatttc tctcgattgc 300
tttaaaggaa ggtgtagaac tccagacatc attaaattgg ggtgatgaac tatatgatgg 360
tgaatcaaat aaacttcaga gtattggcct tcagtcagga gatgcctact caccgcctga 420
aaa 423

<210> 17391

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D1

<400> 17391

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aggcccgctc gcgcgcgctc cgccgcagcc gccgcgccag ctgctggagg catctccggg 120
catagcagtt acacggttgg tgacttcatg acaagaatgg acaatctcca tgttgtccaa 180
cctactacac cagttgacca agccctggag ctgctgggtc aacacaggat ctctggcttc 240
cctgtgggtt gacatgactg gaacctggtt ggggttgtct cagattatga tctcctagct 300
ttg 303

<210> 17392

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D10

<400> 17392

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gccacggcga cgacgacgac gacgaccact acagcaaagc atgagcatcc gtcgccgacg 120
ccgtggccgg agcgtttcca cgcgggtgctg ttcacgaacc tgaccaacta cacggaagcc 180
tccacgggcc cgccgtgcg cgtgacggac ctctactacg actggccgcg gcggcggaac 240
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<210> 17393

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D11

<400> 17393

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cggacagtgt gaaggtgctc aaagtggcag ccaagaagag gaaagtacct gctccgaaa 120
ttctctcggc gctgtccaag atcaagaagg caaaactcga cacatcggcg ttctttgaga 180
cactcgggtg taccgactct ccaggcatga cctggatgct tatcttact gcaaacggtc 240
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aacgcatcga gaatgggata tatttggggc ccatcggtg cttgaccttc gaatggaggc 360
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<210> 17394

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D2

<400> 17394

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cctcgaccgt ctccggcctc gccgggcgct ccttggccaa ccgcccggcg ttctccacaa 120
gcttcacaca gggcagccgg gtgtctgcga cgaagcccct gatgagcagg aacctggaga 180
ggaaatggag gatgaactgc atgacgtttc cccgggacgg gctgcagagg gacctagcg 240
tccaccgggtt cgggctc 257

<210> 17395

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D3

<400> 17395

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tggcaaaggg gaggaggacg aggacgagat ggcgagggat gacgggttcg cgggtgtggga 120
agcggcgctg ctgctggcg tggctgccgt ctctgctgcg gggctggctg gcgtctagat 180
ctccatgcct cgctccgact acagcttctt caagctcccc cgcagcctcg acgagctcca 240
agtcctcact gttcatctgg agggctacag cagtgactac agcatccagg tgctggtggg 300
ctactgtgcc cttgtcatat tcaggcagac gttcatgata ccagggaaca ttttcaggtc 360
cctggctgcc gggggcctt 379

<210> 17396

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D4

<400> 17396

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gtcgacgagg tctggcgcg gatcgtgagc ctcaccagcg gcgaggacgc gcatcagggtt 120
gcggtctccc ctcccgtcc cgcgcccag cccgagcccc cgcccgcgc cgcgcccgtg 180

ccggcgacg cgcaggcgca gcagacgctg ggggccatga ctctggagga gttcctggta 240
 cgcgccggcg tggttcgtga agacatgggg gggcaccaga ccctcctgct gcagccgcac 300
 gcgcaggggc ttttctccca agggaatgcc gtcgcgccgc agaccctgca gctgggaaac 360
 gggatggtgg cc 372

<210> 17397
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D5

<400> 17397

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 tacgcggcat caactggctc gcagtatgct gtttcacaga tcacacggca gatcgaaaga 180
 gctcattttc cagaatcagc ccaggaatct gagtgagttg gttggcattc agtctgttct 240
 attgggggtg caatgtacat ggtatagaaa gacgtttagt gctgcttttg ccgtgttgca 300
 gtacagtatt aagtttactg tgtttcagac agcaccagc gaataaaagt tatatt 356

<210> 17398
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D6

<400> 17398

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 cctgcctaga tgttggatgg gttttgttat aggattatTT actttgtgga ggattctgct 180
 cggcgtgtga acctctgtct ccgcgctctc gcttgactgt tgatttgact aatttggttg 240
 cttagatgtg gctcttatta aaaaccatat gtggataggc ttgcactaca tacacgggtg 300
 catggtaaac gttgtgacca cgctgtgata atgcatggat tccatcagtt cattttattc 360
 gtcaattgat catgggtg 378

<210> 17399
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D7

<400> 17399

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agcacgtgga tctgattccc ggcattcccc acgacgtcgc cgtggactgc ctggccccgcg 180
tccccgcacgc ctcccaccgc gcgatgcgcc ggggtctgccg cggctggcgt agcgccgccg 240
cggcgccggc cttcgcgctcg gcgcgcgccg cggcggggcg caacgaggac ctggtgtacc 300
tgatgcagtt cgggaaaccg tccgccgacg acggggcccaa tgacggcgac gaggggcccc 360
gcaacgcccc ggcgtacggc gtggcggtgt caacgtgacg ac 402

<210> 17400
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D8

<400> 17400

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atccgaggggt tcttgccccg atgccgtaga agtacgcgag ggggacgaag aaaaacattg 120
gccgttacca cgtgagcgag ccaccagttg accaattgcy cgattcaccg gacaagacag 180
agaaggatgt c 191

<210> 17401
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D9

<400> 17401

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acagcctata agtttctgtt atttccatct atcctcctcc tactgagatg gtggatatgg 120
gatggatgcc ttccagcatt ggctgttcaa atttaccagg cttgggttact atacctgtac 180
acaagctttg ctttgcgtga gaatgtatta attgcgaatg gaagtgacat tcgtccatgg 240
tggatatatc atcactatct agcaatgctg atggctctta ttagccttac atgggagata 300
aagggacagc ctgattgttc tagcaagcag aggggggtgc aacttttctt gcgctgggca 360
atcatgcaag gcattgcaat gcattctacag aatagatccc agcggcaaag a 411

<210> 17402

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E1

<400> 17402

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agaactggct ttcctaattc tcctacatcc agaagaggag ggactgttcc aaattatcaa 180
ggcatatcat cctatgttgg agggccgatg acttatccga caagtccagt gtttcaggga 240
caaaccttgc ctggagtatt gcctcctgat acgagaaatg accctgttgg atttcagtcc 300
ccctcaagaa acatcaccgg atagtcttga gattcaaagg cagcgagaca gacagaagtt 360
tgggtgaatca aaaacttgct ctttcttaga agagttgaag tccaacacaa 410

<210> 17403

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E10

<400> 17403

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gtggtggcgg ctgctacaac tgcggccagg ccggccacat ggccagggac tgcccaagcg 180
gtggcggcgg tggcggaggg aggttcggcg gcggcggggg tggaggcgac cgctcctgct 240

acaactgcgg cgaggccggc cacatcgccc gcgactgtcc cacgtgaggt gtgtccgcgt 300
 ccgtccagcc agccagatcg gatcggatcg ctccaccacc tgctgggtctg atggcgccgc 360
 ccccttctag atctcgctta aaagaacatc gccctctccc tgtgt 405

<210> 17404

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E11

<400> 17404

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 gcccgtaaga cctcttccgg actatttcaa gcccgcgtgt tgtcggaaac cgccgcgccg 180
 agacgaggag gaaggtgggc agagctaaag cgcaacgagt gggcagtgt aataggcacg 240
 tgataaaaaa atggagataa attgcactgg ttgattccat ggtagcagca tcctggggat 300
 gtacgcataa gatggcaggt agtcggcctc gtcgttttct tctaggagaa gcagtcggaa 360
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<210> 17405

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E12

<400> 17405

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 tgccggcgca gcaccttct cctgccgcag cgggaggagg gaacgccaaag aacagagccg 180
 tgccagtgtc gttcagaggc gtcagcagcg gcggtggcca ggaccagcag cgtgaggccg 240
 ccgcgtctt cgtcggggcg cggcgcggcc tcgcctcgtg cgcgctcagc gccgtcgccg 300
 cctcgttctc cgcccgcgt ggccgccccg cgccg 335

<210> 17406
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E2

<400> 17406

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tcttctgctc gccgccagcc ccgcttgctc tggcgcccg gcgccccag ccgtcaggcc 120
gtcaccgagt ggggatcctt gggcacctgc acgccccag cccgtcaacg cttggagacc 180
cgcgcaaccg cggc 194

<210> 17407
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E5

<400> 17407

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ctcctcagta gcaggaggtg cgctcgtgcc gccgtagccg gaggcgcggt gccttacggg 180
gctgctcccc ggcgtgggat ttggtcgatc agggatgact tgggtggtgcc gaggtctccc 240
tactttccag tggattccgc ggcggggcaa gagcgtgggc cgtcgcccat ggtgatggag 300
cggttccaga gcgtcgtcag tcagcttttc cagcacagga ttatccggtg cgggtggtcct 360
gttgaggatg atatgggcaa ca 382

<210> 17408
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E6

<400> 17408

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tgaagggcac tgaaaagtgc atgatgcgcg gcatacagc ctgcacgcac ggcgccaatt 180
tcaaggaaat ctgccaaaga ataaatgagc acgcggagaa atatgggtac ggcacgcacc 240
ccttcctggg ggacgggggtt gggaggatgt tccactgcc a gccatcata tgggatagct 300
accattacga gccccggttc a 321

<210> 17409

<211> 191

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E7

<400> 17409

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ctatttttagt actgatgcta gtcacatcat atacgatcg agctcgccac tgcgaagtct 120
gagataatgc atgtatgctt gacggggaga tctgaggaaa gataatttct atatatgcat 180
gtttcgaaga a 191

<210> 17410

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-E9

<400> 17410

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ggacaaatag agctaagtct acacaggagg ctactccatg atgatgggaa aggcgtcgcc 120
gaggcgctaa atgaaacagt ctgtctcgat aagcaatgtg aaggactcat tatacaagga 180
aaatactatg tcaaaataga cccacaagga gaacgagctc ggtggcgctc gacatttggc 240
caggaaatat actccctct ccttcttgct ttcacagagc aggatggagg caactgggcg 300
aattcacatg ttgcaaaatt ctctgcgatg gattcaactt acagcttgcc tgataatgtt 360
gcaatgctta cccttcagga gcttgaagat ggaagtgttc tccttcgggtt tgctcatcta 420
tatg 424

<210> 17411
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F10

<400> 17411

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gtcattgtca tccttactct ctggctccaa tactgcgagt gctgagcttc ctctaattccc  180
ttgcaagctc tgcaatgggg tggtgattga gcgggtctcc aaacaaccag aaaccacgtc  240
gaggaagttc taccggtgca gagccaagaa aacggatggg tcttaatgtg attttttcca  300
ctggcaagcg agctatgttg ttttgtaaat cgacgatggg tttgtcagtg gtgatcgacg  360
ccttgagttg ttaatgatcg cacttaatga tcatggcaaa gccgttgaat ctct      414
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<210> 17412
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F11

<400> 17412

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cattccggtc gatacagttg ggggcattgt ggaccaactt ataaggtttg gcaaggtgac  120
aaggcctatt ttgggagtaa aatttgcccc cgatcaatct gtggagcagc ttggattaag  180
tggagtgctt gtcttggtg ctctccaaa cggaccagcc ggcaaagcgg gtctgcagcc  240
aaccaaacga gatccctatg gtcggcttat cctgggtgac ataattacct ctgtgaatgg  300
cacaaaggtg acaaacggaa gcgacctgta ccggatactg gatcagtgtg aagtcgggga  360
aacggtgacc gtggaagtcc tgcgtggcga tcataaggag aagatccccg tggctcct   417
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<210> 17413
 <211> 405
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-006-Q1-E1-F3

<400> 17413

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atggttgtct ggatcttgta gagatttgtg atgatacatg agctgttgac tgcgattaag 180
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tagtgttgga cttaatttta cttgtcaaatt tacaatagtt tggccccatg tacttgtgtc 300
cgcgctccg cggttgtgcc cctagtgttt ttgtgtcatt tgctgtgtan tgtgagatta 360
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<210> 17414

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F5

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cctgtcgaca tgagtccttc cccgccctgt tctttcaacc gtgcaaagct tgcgttttgt 180
tggtttcact acaggctctc tctgttggtta atgttaaaag tatggtacat ggcctttag 240
atcggttcaa actgttctca ggtatggcct tttccatgga aaaa 284

<210> 17415

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-F6

<400> 17415

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gttttagctta gtctgtctat atttcaacat acttccctca gaaatatcat gcggttatgg 120
atatgttccg tccttgctt tttctttaac ttgtttaact ggggtgtaaga aatttgttgt 180

tgggtgtgtaa aataaccctc aaccgtgggt ttccacagac cagaatgcat tttccccgat 240
 aatacattga agaaagtctt catgcaagcc tctttgtggg ggaaaatgaa gtcttaagga 300
 tgttctgaaa gtagtgacta cccatcatgt cctttgtaac att 343

<210> 17416
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-006-Q1-E1-F7
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 ccacggcgtc gcggcagcca ccgcctccct cgggctccat cgctccccc tccccttccg 180
 cccccttcgc tcccgctccc gtccttcac cagggtttat gcgatctcca gcagtgacat 240
 cagggtcggc accaacgtcg aggtcgacgg cgcgccatgg caagttctag agttcctcca 300
 cgtcaagcct gggaaaggcg ctgct 325

<210> 17417
 <211> 185
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-006-Q1-E1-F8
 <400> 17417

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 aacactcgcc ctgttcggca aatccaaagg caagaccgcg cccgcgaaaa aggatctgcg 180
 tccca 185

<210> 17418
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-006-Q1-E1-F9

<400> 17418

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gctccttcaa gagtggtgga taaatgtttc tgatctccaa cagcttcatg tcccggtgctc 360
tcaccaggga ccctaagagc ctgcaggaag ctttggctcg ccttcatgag ttcagaatcc 420
agccggg 427

<210> 17419

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G1

<400> 17419

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ttgtctgctc atcgcatgtc atcggtgcca actgtggcgc ttcccggtga ccataaacca 180
aacacggaag atgagtatgc aaggattgag gccacgggtg gcaacgtcat caattgggaa 240
tggctatcga gtccccctg ttctcgccat gtcccggtca attggggaca gataacct 297

<210> 17420

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G10

<400> 17420

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aacgacatca cgggtggaggc gtggctcaac acgcacggtc tcaacgaccg cacgctcgcg 180

caggggctca aggggtgaccc cacgtacctg gtgggtggagc aggacaagac gctggccacc 240
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 aacaagttca tctgcccctg cgactgatcc cagtacaaca accagggcac tgtgggtccgt 360
 ggaccgggcg cctctgtcgc tgg 383

<210> 17421
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G11

<400> 17421

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 cccgagcagg acaccatgga tggaggcagt tgggtgtacg ggaacgtccg cacgccgaac 180
 ccagtcattgt cgcaggcggc gtccatatcc gctagccccg ggctaaccac ctcagccaat 240
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 ccatacgagc gaggtaacac atccattgag acgaagcgaa taagaaggat ggtgtccaat 360
 agggagtctg cgcggcggtc taggaagagg aaacaggcac agttgt 406

<210> 17422
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G12

<400> 17422

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 ggatcacgtg tcgttttagaa aagatggaat aatcctgaaa cacactagac tgaatcatct 180
 atgtgttgca tgacgtggac tgtgtcgttc ttattattac gcactaacat agctgaacta 240
 attctcttga cctcgagttg cctgggtgcc tcttcaacct tcatgttcag aatagcattt 300
 gttgtgagat atcatctgtt atcttggat atgtcttcag gtctgctctc ttggagcaga 360

caaacagctc agagtcacta agttgtttgg ttaaattgtct gcaggattta atggggggggt 420
 aaat 424

<210> 17423
 <211> 392
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G3

<400> 17423

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 cgacgccaac gggagaaagg gcaaaggcaa aggcgtgtac cagttcgtcg acaagtacgg 300
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 cgtctacgtc tgtggaacca ctgggcttct ga 392

<210> 17424
 <211> 132
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G4

<400> 17424

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 ccccgatgaat gg 132

<210> 17425
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G5

<400> 17425

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 tcacgggtag gggagaaaat cgggtgaaggt ccgcggggccc tgatgggcgcg ggggggtctcc 180
 ggtggcgccg ccggtgggga tgcggcgggc gcgggaaactt agcccgtggt tctcaacgtg 240
 tacgagcgtg acgccgggtca acaactagcg tccactgggg cgggcttggg atcttgcaact 300
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<210> 17426

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G6

<400> 17426

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 gggccagaag ccgacgcccc agaccgtctc ccgcacgaga agatctggca cgacgacagt 180
 gttcccggtg ggccaacccg gcccgcgggc ggcgacgacg agcggcaaag cgccggttaa 240
 gctgctgacg aacctggaca acctgcccgt gctgaccaa gcgagcgcg cgggcctgct 300
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<210> 17427

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G7

<400> 17427

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 tcgctagcgg ccccggcagc caacacgagg cccgcccgcg gcgtcacgta cgtggagggc 180
 atgaacgcct agagcggcct caaggggctc aagaaggtga ccatgctcgg ggtgcgcaag 240
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ggcggcaggg ggtt

314

<210> 17428

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G8

<400> 17428

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gcagcaacat cggcggcgat ggaggcctcc atgatctcct cgtcagctct ggcggttgcg 120

cctcagggcc tgccgcccct cgggcgcgcg gccgcctcct t 161

<210> 17429

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-G9

<400> 17429

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ccccaccgac cagtcgccg agggaggtgta ctccgtgtgg gcccttcgcg cggagcccgt 180

ccgtgatcgt ttccgccgca tcatggaggg cctccgcgct gcatacggcg gccccgcctt 240

tgagccgcac gttaccgtcg tcggtgactt ccgcggaacg cgctcggaag ctgtcaaggt 300

gctccgcgcc gccgccgcca gcgtccaacc ctacactgct cgtgtcacgg gggttgcccg 360

tggcagcttc ttctaccagt gcgtctacat ccttctcgac ccaccgccg aagtgggtggg 420

<210> 17430

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H10

<400> 17430

ttccactaga acgtggtgca tcagcatacc tgctgtgcc gccgccgccg ccagttgttt 60

gctgtggaaa gctagatgca tgcgtgttgt aaaggaacct gaagcgttgc atcggtcatg 120
attcatgcat ggccagcctg ctgcctgtaa caacaaacta gtattgatct tattgagacc 180
ggaaactgta ttgcacatgg taaatcaatg tacaattcct ccct 224

<210> 17431

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H11

<400> 17431

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agagttagca ggctaataac ttgcaggagc agcaggaatg gcggcgacgc gtcgcctctc 120
ttgctttctc ctgcgccgtgc ttctggcagg agtgggcgct gccaccgcct tcgacgaagc 180
ggctgctgcc ggcttcgggc ttggccacgg cgcgcgtttc gcgcgcaagc atggacgtgc 240
tgccgctgag atgccccagc cggagccaca acctaaaact aagccggagc cgcataatgca 300
gccactgccc cagccagaac ctaaaccgaa acctatgcca catccagagc caaagcctga 360
acctcaacca tagcccaacg ctga 384

<210> 17432

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H2

<400> 17432

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tggggagcaa cttcatcatg atcaagcctg accgggtcca aaggggcctc attggtgaga 120
tcatcagccc ttttgagaaa aaaggcttct acctcaaggc cctgaagctt gtcaacgtgg 180
agaggctggt tgccgagaag cactaaaccg atctcgctc caaacccttc ttccaaggcc 240
acgttgacta catcatctct ggccctgtgg tggccatggt ctgggatggc aagaacgtct 300
tcacaactgg cccaagatc attggcgcca ctaaaccctt ggcttctgag cccggcacca 360
tccgtggcga ctttgctgtc gacattggca cgaatttcac tcatgga 407

<210> 17433
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H3

<400> 17433

agcaagcgcg tgcgacaggc ttcaccttca ccaagcctgc acctggccag ctgggtcgac 60
gggctggcgg cgcgcgtcgt ttgcctcgcg tcgccgagct gcgggcaggc cgcaccggtt 120
gggactccac ggggctgtcg ggtactggtc cgtcgagcgg gagccgtagc cgggacagga 180
cctgtccgcy ccaaccttct tcccgcgggg cccggcatga caccgagccc tacgggacgc 240
ctggcgcaac atccgtgccc gccgaagcaa ctgcctgggc caaaggag 288

<210> 17434
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H6

<400> 17434

cgggtccacc cacacgtccg atcggaacgt tctgagagcg caactgaaaa gattatgagc 60
agcatcatgg ataccattgc tgacaacctt cctaagcaga agtctgggaa atttgatcca 120
ggttcagtct ctgacaaagt gaagaataaa ctgtttggtc gtcagaagac cttgcatgga 180
gttctgggtg gtgggaaaac tgctgatgtg ctgtt 215

<210> 17435
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H9

<400> 17435

accacgcgtc cgacgaagtg cgagcgaccc acgtccacac gacacgaacc accaccacca 60
accagcagcc gcaccacgca cccagcgcaa agcgatggcg tcgctcacca tgatggcgtc 120
cttcgcgcgc gtggcggtgg ccgcgccttc gcgcgcgggc accttcgccg tggtcaggtc 180

cgccaagggtc gaccgctgcc aggagcccg cagcctagca gcagccgagg ccaggcccg 240
cgccgacgga cgccgcgcgc tcatgctcgc ggctgctgcg gcggccgtgg cagccatcgg 300
cggcgccggc gccgcatgg cgggccccag gaacgggacc cccgaggcga ataagaagta 360
cgcgccatc tgcgtcagca tgcgcaccgc caa 393

<210> 17436

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A10

<400> 17436

gggtcgacac atgctctag accgtgtcat gttcttgaag gaacatttgg aagaaatcca 60
ctcgtataca gcatccatt ctggttgag cagctctaag gagttatggg gcttatcttg 120
ctgatgggtc tgagtacagt ggggattatg gtgaagctgg tacgacagag ttcctgaagg 180
actttcatcg gcggtggctt caggttcttg ctgaagcagg cccggatttg attgcttttg 240
aaacgatccc cagcagattg gaagctcagg catatgttga actccttgag gaatgtaaca 300
ttaatatccc ttcattggctt tccttcagct caaaagat 338

<210> 17437

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A11

<400> 17437

cccacgcgtc cgctctagtc ctctcgcac cgcagcttcc ccagccagct agggtttgca 60
gatgacgacc gcggcgcgcc ccacctgggc gccggccaag ggcggcaacg agcagggggg 120
caccgcacac ttcggccctt cccagaagtt ctctctccgc gacctcgccg cgcacacctc 180
cctcaagcca agaaaagacg gtcaacagac ccaagaggag ttacagaaga ggaatctcag 240
ggaggaactt gaggaacgtg agcgcaagca ctactcttcc aaggataagt cctatgccga 300
agaaagagac cggcggaata gctctagcca tctactctta gaaggttcaa agagagagac 360
agaggataag atagtccac gagaaatcga tgctgatgac tccgaagtgg agcctaaaag 420

cgatgacgag aacgatgaag atgatgatga cgacgacact g

461

<210> 17438

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A12

<400> 17438

cccacgcgtc cgggcgaccg ctacgtact gagctcctcc ttcgccatgc ccgccgcgcg 60

ccgtagggcc tcttccccctt cctccgcctc attgagcttc gccacgtcgc agctcgccgg 120

cctctccctc tccgcggcg ttgcaactcc aaccgccgtc gccctcctcc ccaagaggca 180

gcagctccag cccaactgtc cgcgggcgtgt gtgcccgttc acggacaaga agacgaaccg 240

ggcgaacaag gtgtcgtttt ccaaccacaa gacgaagaag cagcagttcg tgaacctgca 300

gtacaagaag ctgtggtggg aggcgggcaa gcgcttcgtc aagctgcgcc tttccaccaa 360

ggccctcaag accatcgaga agcacggggt cgaagccgtt gcgcgcaaag gcggcatcga 420

cctcaacaag aagtgagcaa gaagtgagcc catccgaaga gcaaccaaac taatgttggg 480

ggggaact 488

<210> 17439

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-A9

<400> 17439

gcatacgtca gaacagacat cagcacaacc atggatgcac ccagacgcgc cgccgccacc 60

tgcaacgtc agcacggtgt gcaccacgag aagctcagcg ccgtcgact gcaactgcag 120

gcgtgtagcc acaccatcgc cggcgattgc gggctctcgc tcacaagcga aacctacgtg 180

ggtcgcgcg gctgagccga cgtggcggtc tcgcgagcag cggccatggt cct 233

<210> 17440

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B10

<400> 17440

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gagcagttcc acgcggtggt cttcaccaat ctcaccgata gcggcggccg gctgcagctg 120
atcgacctgt actacgactg gccacggggc cgcaacctca acctcatccg ggaccagctc 180
tccagcgacc cgctctacga cgtcgagtgg accaacggca cctcctactt cttcgactcc 240
gggtcctgcc gcaccatgcg tttccccgtg gggatcctgc cgctgactg gctcgccgcc 300
ggcgccgtct atctcggtcg cgagcaagt 329

<210> 17441

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B11

<400> 17441

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cagtgggcat cgaaggaggg tgcactggct gaagagaaca tgcgcgggat ttgcttcgag 120
gtctgtgatg tcgttcttca tgctgatgct atccacaggg gtggtggcca ggtcattcca 180
actgccagga gggtcattta tgcttctcag ctcacagcca agccaaggct gctggaacca 240
gtttacctgg tggagatcca ggccccagaa aatgcactgg gtggcatata cgggtgttctg 300
aaccagaaga gaggacatgt attcgaggag atgcaaaggc ctggtacccc gctctacaac 360
atcaaggctt tcctccctgt catcgagtcc tttgggttct caagccagct gagggctgca 420
acctctggtc aggcgtcccc cagtgtgttt ttaccactgg gacatgatgg gctcgg 476

<210> 17442

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B12

<400> 17442

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actacctgat gctgcccgtc aacgcgccgc gctgcgcgca ccacagcaac caccgacgacg 120
 gcgccatgaa cttcatgcac cgcgacgagg aggtggacta ctacgcgtcc aggcacgcgc 180
 cgctgcggca agcggcgccg cccacgccac tgccgccag gccggtcgcg gggaggaggg 240
 agaaggcaac catacgcattg cccaacgact tcaagcagcc aggggagagg taccgctcct 300
 gggacgccga ccgacaggac cgattcgtga ggcgattcgc cgactcgctc ggacacccaa 360
 aggtc 365

<210> 17443

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-B9

<400> 17443

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 ggcgcccttc tctctgccc ccatcacgc ccttctctc acggccgcgc ccgctcgcgc 120
 agtggtcagc aggaggtcct tcaccgtgag tgctctctc cgcaaggcca ctgccaccgc 180
 cgccgtggcc gttgccgcca gcgtcctgct tgccggcggc ggcccatgg gccaggaggt 240
 gctgctgggc gcaggcgacg gcgggctcgt cttcgagccc agccagttca cggtaaggc 300
 cggcgacacc atcagcttca agaac 325

<210> 17444

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-C11

<400> 17444

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 tgagcaggaa cctggagagg aatggcagga tcacctgcat gacgtttccc cgggactggc 180
 tgccgagggc cctgagcgtc atcggcgctc ggctcatcgc ctggatgggg ccgtccagcg 240
 tcggggccat cagcggcaac agcctcacgg ggctcgtctt ctccagcatc ggccaagagc 300

tgggccactt cccc

314

<210> 17445

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-007-Q1-E1-C9

<400> 17445

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tcaaattctc tatcgagccg tgaaaaagat tcaacaaaag acagaaacaa atccactatt 120
ggttttacgt caagcaatac gtagagtaac tcccaatata ggagtaaaaa caagacgtaa 180
taaaaaagga tcgacgcgga aagttccgat tgaaatagga tctaaacaag gaagagcact 240
tgccattcgt tggttattag aagcatccca aaagcgccg ggtcgaaata tggctttcaa 300
attaagttcc gaattagtag atgctgccaa agggagtggt ggtgccatac gcaaaaagga 360
agcgactcat agaatggcag aggcaatan agctcttgca cattttcggg aaaccatgaa 420
ca 422

<210> 17446

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-D11

<400> 17446

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acggcgccca ggctcgccca atggcgcgct gaccgctcc cctgctacac ctaccgcaag 120
tcactccctt tcctcatcgg cctctggaac tgggtgcatat ctgtggagag aaataacagg 180
cagacctgtg ttaagctctt tgcagagaat acaagttctc tcaagaacgg ttcctcagcc 240
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gtccaccag gaatttttga caaacagctg aaataccacg gttttgtgtg gacaatcgat 360
agcaccgtca ctgggaggtt tgtgaatgag atagaatttc gtgacctgaa ggtcgctgat 420
tcgtctggcc gcgaaccggg ctccaattgg gcctcccc 458

<210> 17447
<211> 513
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-D12

<400> 17447

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aagccatgga ggattctaca gggagattta tgccgtcgat ggcatcactg gcatcaagtt 120
ccctgatcat taccctgtct cagcctcctc tggctgtgtt gaggtggtag gctgcctcag 180
gtctgaagag cttgtttgct gggaacatgt gcctgagtct gtcaggcttg aagggctgac 240
tgacttttgt tggctctgtg aaaatccaca gaagttggtg gttccattcg agatgcgtgg 300
ttaccagggt gtctacaatt tagaaagaag gatctatgat ggggctgtga ggggcctttt 360
acctgttcaa ggtccactgc ctgtcaagtt cctctctcca gatcccagag accccttctc 420
cttgaagcca agatctctta catttgctgc ttccaaaacc actctgcaaa aatctggaag 480
tgttgctgca gcaataaccg gggctcgagc tgc 513

<210> 17448
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-D9

<400> 17448

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aacttgctgg cctccctgcc tccacaagca gaaggcgctt caaggtcaca gccatggcgc 120
ccaaaaagaa ggtgaaccgc tacgacgaga gctgggtctaa gcagtgggtc ggcgcgggca 180
tcttcgcgga gggcagcgag gaggtgtccg tggacgtgtt caagaagctg gagcggcgca 240
aggtgctgag caccgtggag aaggccggcc tgctgtccaa ggccgatgag ctgggcctga 300
cgctctctc gctggagaaa ctgggcctgc tctccaaggc cgaggacctg ggctgctca 360
gcctcgtcga gaccgcggcg gggacgtccc cgtccgtcct cgcctccatc tcgctg 416

<210> 17449
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-E10

<400> 17449

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gcagtggcaa tggcagtggc gcctctttctc cctcctctca tcccagccgg agctgctccc 120
gccgcccggg ccggccaacc atgtcaggtg ggaggagacc gccgccgcgc agctctttctc 180
cgcaagcctc gcgggagtgc tcaaggagga catcaggtg gcggtggaag acgccaggta 240
cctcgtcatc cgcaccgagc tggacgccgg caccggcacc ggtggtgccg tcgaggacgc 300
gaggagcttc gagcggaaagt ttcggtgcc ggggatggtg gacgtggagc gg 352

<210> 17450
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-E11

<400> 17450

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gtcctttctg ttccagttgc aacaactttg tctccagtcc tgtggcagct gaatcttcct 180
gacagattcg acatatatag cttgggcctc atattcttac agatggcatt cccgtcacta 240
cgaactgata gcaacctcat acaatttaac cgccaactga aaagatgtga ttatgactta 300
caagcttgga ggaatctggt ggagccacga acgagtgtg aagctcctga agggctttga 360
catcatggat ttaaacggtg gtatcggatg ggaaatcctc acctcgatgg tccggtacaa 420
agcacggcag aggaccaat 439

<210> 17451
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-E12

<400> 17451

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gagagcgctt ccgctgaccc cttccatgag ctccctcggtt ggagctcagc aaaccaggcc 120
gagcgggtggc ggccccagat cagtgcagagc ttatgcgaag ggagactagg agggcgacaa 180
gcagtccttg ttcggaagca tcaccgaggc gctggacttc tcgcatgtcc ggtcggaaaa 240
agacgccgag ctgctgtact aggccaggga ttccaccaga cgtggaggga ggatgacgag 300
ggagcagtac ggtgcactta ggccgggagat tgggtggcacc taccatgatt tcgtcatgtc 360
atatgttgaa gtcaacgggc aatacgtgga agagggttgg gtccacagaa cctgcagtat 420
ctgcaagaag gacacaaggg g 441

<210> 17452

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-F11

<400> 17452

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gtggatgtcc tatacgacga aatggaactt ttccatactc tttccaggaa tactgtcttc 120
aaccactgta ctgtcagtac tcgcagctga cgataatgcc atgctaccac actgcgaatt 180
cctttgctcg ttgctttcaa tatggatcgt gtgaccacca acgctgggac cttccacatc 240
atgacctcca tagacagctc tgttaccgag atcatgccga gtcaccaaca gaagtcaccc 300
tgctcaaggc ggacgacacc accgccaacg cccacgtgga gcagctgcac gcgaagttgc 360
tcaaggccac gacctcgcag tcggccctca tcgagatcat ccagttgt 408

<210> 17453

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-F12

<400> 17453

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ccaggagctc ctcgttttga gctcaccaaa ccaggccgag cgggtggtggg cccagatcag 120
 tgagagctta tgcgaaggga gacgaggagg ggcacaagca gtccctgttc ggaagcatca 180
 ccgatgcgct ggacttctcg cagggtccgtt cggagaagga cgccgagctg ctgtacgagg 240
 ccagggagtc caccagatgt ggagggagga tgacgaggga gcagtacgga gcaactaagc 300
 ggcagattgg tggcacctac caggatttct tcaactcaga tgttgaagtc gacgggcagt 360
 acgtgg 366

<210> 17454

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-G10

<400> 17454

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 ctcgaagccg acgaggtggc ctcagcacac ggcgcgcgag ccatgggagc attatcagcg 120
 aagaccatac agaatgcatt cttggcacia cacagacgga gataggcatg gtgcaagata 180
 tcccagtgat ttttgttctc tcaatacccg cagcatgcat tccgtccagg aatgtagatt 240
 ggcagtggct gattcttcag ccaagtgggt aaataccaca tcgacactat ggacgagctt 300
 caacagacaa gcatacatta gctgcaatgc tgctcaaggg ggcactgttg tgtgttcac 360
 tgagacagtt gagtttccga agcttcagaa tgggagtgag attcgtgggg ttggtgttgc 420
 cggggtttaa ggtgagcc 438

<210> 17455

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-G11

<400> 17455

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 ccggcctcgc cttccccgtc gctcctttc cactcgctg cgtctctca cctccccacc 120
 ccgggcaccg catctgctgc gcgatccgt cgtcgtctc gcgcgcacc gtcaaactct 180

cgccgctccg cgcgactacc gtcctctcca tggaacgacg gggcacgggc cgtggcgcgt 240
 ccgtagtggt ccgctgtcca gggccaggac acgaccatcc aggtctcaga tgatgccaaa 300
 gtcaacatgg ggagtcactc gtgatggaga gcgagcttcc tgtccctggt tgagttctcg 360
 gtgggggatgg gtgcg 375

<210> 17456

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-H11

<400> 17456

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 ttttaatttg ctgtgactat gtatttgctg tttctcccag taaatagata ttacagttct 120
 tttcagttct gagacaccta gatttaaaca catacactgc acaccggacc ttttctcgtc 180
 cttattgctc cactatgatt cctgtccttt ctttactaa ccaaaactct cttttccttt 240
 atctttctct catatgagca cttcacaaaa ataagtatat ggatgcagct agtagtaaat 300
 t 301

<210> 17457

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-H9

<400> 17457

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 ttccctctgc tcgttcccta acgaaggtag ccatggcggg gagaggtaag gcgatcggct 120
 caggcggcgc caagaaggcc acgtccagga gctccaaggc tggcctccag ttccccgtgg 180
 gaaggatcgc caggttcctc aaggccggca ggtatgccga gagagtcggc gccggggccc 240
 ctgtcgatct cactgccgtg ctcgagtatc ttgctgctga ggttcttgaa ctggccggga 300
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<210> 17458
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A11

<400> 17458

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tccaatgacc taccgcgagc aagctggaat cgtccgtaag aacggcttca tcgtcatcaa 180
gaaccgtccc tgcaaaagttg tggaggtttc tacctccaag actggtaagc atggccacgc 240
cagatgccac tttgtcgcca tagacatatt caatgggaaa aagcttgaag atattgttcc 300
ttcatcacac aactgtgaca ttccgcatgt gaaccgtact gagtatcagc tgattgatat 360
ttctgaggat ggattttgtga gcctccttac ttcagatggg aacact 406

<210> 17459
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A12

<400> 17459

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ggagctcggc catcagacct cacatttgat gacagaaaag cagtgcagat ctccaaacga 120
cttaciaaagc atggggatta ctttgggcct actgaggacg gaaagccttc tcctaaagat 180
agattatgta ttgaggtact agagcaagct gaaagaaggg acccgcaact tggagaagca 240
tcggtttctc ttgcgataga aggagactct gcgcgtggga ggctactcta ccttgaaaac 300
cgagttgctt tagcaagaat actgtttcct atggaggcaa gggtagcaat ggacattgct 360
caagtcgatg gaacactgga attcaccctt gtttctagtg tgaatc 406

<210> 17460
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A2

<400> 17460

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cggctccatg acgtggccag caacattggg tctttccctc tcgccccagc atcagcgtct 120
ggttaatttc tgccgcgctg caagaactag gccgctggac agcaagaggg gtagctggag 180
gcgctcttcc agtgccaccg gcggctcgtc gaccgccgtc tcgtcgctcg cagaaagatg 240
ggttctcgac cctgcaggag acggtgactg gcgccacatc ggctaacaaga tcgcgcgcac 300
tggggcgatc gagatagtct cggtgggacac cgc 333

<210> 17461

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-A3

<400> 17461

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tgcaccaaca atggccgccg cctcctcgtc ctcgggtctc ctgctgctcc tggccgccgc 120
cttggttggc atgagcgcca ttttggttaa cttcatcatc agcaacaact gccggttcac 180
cgtgtggctc gccgccactc cgggtgggcgg gggcacacac ctcaggatgg gcgggacgtg 240
gaccttcaac gtgccggctg ggaccatctc cggccgcgatg tggggccgca ccggctgctc 300
cgtcaacggc aagagcggga gctgccatac aggcgactgc ngcagctcgc tggactgcac 360
gctgtcgggg c 371

<210> 17462

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-A5

<400> 17462

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gcccgcacca tggctatcac ctcccgcgcg ctcatcggca agccggcggc tggcacgagg 120
gacgtcttcg gcgagggccg catcaccatg cgcaagaccg ccgccaagcc caagccggcg 180
gcgctccggca gcccctggta cgggtgcgcac cgcgtcctgt acctggggcc gctgtccggc 240
tcgcccccgga gctacctgac cggcgagttc cccggcgact acgggtggga caccgcgggg 300
ctgtcggcgg acccggagac cttcgccaaag aaccgcgagc tggaggtgat ccactgccgc 360
tggggccatgc tcggcgcgct cgggtgcgtg ttncgggagc tgctcgcccg caacg 415

<210> 17463

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A6

<400> 17463

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ggctgtgggtg atccgtcctc cactcctcct tcgtccattc ctctggtgca aggtttgtcc 120
agctctggcc tctggttctt ctgctttgaa acgtcagtct ctgcctcttc gtctctggtc 180
tgggtgtgccg cgccgtcctg ttccggcagcc tcagctacgg cgccatcccg gtcgaatctc 240
atcgcagctg atccctctgg atcacgtccg cggcaacggc gccatcccg ccgaatctcg 300
tcagcgtaac tgggtccctt ggatctcgtc tgcgcacggc acagctgctc agtctcatga 360
tttaaagcgc agctgggtccc tctggatatt tacttttg 398

<210> 17464

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A7

<400> 17464

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gttggtgctg ttgtaaaagc agctttgagg 90

<210> 17465

<211> 421

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A8

<400> 17465

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gttaatttat ttcaaagcac acattcttag tttagttttt tttgtttctg acagatctct 120
ttcgatacac gttttaacta caatgcctat gtgaatatgc acccgtttcc tattccgttt 180
ctagaatttt cgcaggccga gaatgacttg cagccttgga ttgctagaga cgacgaacaa 240
ggccagacga tgtggagagt caaccaacgt atagtgaagc ttatagcgga gctcatgacg 300
aaccatgaca gccctgaagc qttggtgata ctgctagtgc cctctgaact tctacttcgt 360
gctactgatg gaatgcttgt tgacgggtgaa gcttgtactt tgccacagct tgagcttctc 420
g 421

<210> 17466
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A9

<400> 17466

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cgcatcatat tctgaagata ttgaaggatg catccgtaat tctactttgt ggctgcttca 120
tgaattacaa attcatccat gcatttacia gtgccgtcaa gatgctgttg cagatttgct 180
ccagttgtat gcatatatat agtgcttttt ccgagtcagg gattaccata cagtaacatc 240
tccatcagtt catatcactc cgcttgactt acgccccaca tatgcctaata atactgtgaa 300
cattcgtttc atgagtactg catgacatac tcataaaatt actgcttagc ccatcatatc 360
t 361

<210> 17467
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B1

<400> 17467

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ctccgcaacc tcggctaagg acaggatttt tctcagttat ggactctcaa atgataacctg 120

ttgggtgcat ccctgaagca tgcacttctg ttgggtgcagc taaatatggg aggccaattg 180

gttttagatga gagccttaag gtggatttga ttgtgattgg gtcagtggca gttgatccaa 240

gttcaggagc acggttaggg aagggagagg gatttgcaga gcttgaatat ggaatgcttc 300

gctatatggg agctatagat gattcaacca tgatagtaac tactggttgc catgggctga 360

gccagcccac aggtgatgac agcagc 386

<210> 17468

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B10

<400> 17468

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ccggccagag attgctaaag tggctgataa gatatatgcc gtgagacaca agaatagggg 120

gagcaacatc gacgtgggtg ccaaggagga ggccctggac atcatcgagc gtgatcagac 180

gtacaatgct agctgacgct gctgctgctg tgtattgatt gatctgcagg cagatgctaa 240

cgcagacagg atagttcttg ttgtgttatg gatattctgg cctattgttg tagctgtgta 300

tatgtgtgat gcagttacgt aactattgga ccagcttggt tggcgcatca acgttgtgaa 360

tgtatcagct accaccttgg cttggtacca gctttaatta catttggg 408

<210> 17469

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B11

<400> 17469

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aaggagggat aaggggatgg ccgggatcgg accgatcagg caggactggg agccggtcgt 120

tgtgcggaag aaggcaccca ccgccgccgc caagaaggat gagaaggccg tcaacgccgc 180
gcgccgcgcc ggtgcggaaga tcgataccat gaagaagtac aacgctggta cgaacaaggc 240
ggcatccagc ggtacatccc tcaacaccaa gcgcctcgac gacgacaccg aaaacctcgc 300
ccatgagcga gttccaagtg atctgaagaa gaatctcatg caagcaaggc tcgataagaa 360
gctgacacag gcacaacttg ctcagatgat aaa 393

<210> 17470

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B12

<400> 17470

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ataatgcaaa cagatatatg ttgcagtaat tgtgttctcg actaaatctt caaacatacc 120
ctgccttcat gactatgggt aagccatgac catttccatc tgtgattctt gaattatcta 180
cactgatcca tttcggtaag gttaaggtaa gaactgttcg ttggatagaa tggattcgaa 240
aaaagcgtac ttttcttaat gattattctg agttctttct tttgttaatc tagtcgaaca 300
actatgagac ttttagaact actcaaatgc gagcaatctt atcattgcga taccgtaaata 360
tgtctagata gttaaatgtt attgtcacag caaaata 397

<210> 17471

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B2

<400> 17471

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ccagttcagg catcctaacc cctcgaacga tcacagggtc ggcgtcttct ctccctcggg 120
tttcaggtac tcgacggact atggcatgtt taggctctgc atatcgaaca cggaggatga 180
ctggaggccg ggaacggaac agtacaagtt catcgatcga atcagccctg gctcatcttc 240
ctcgcgcacc gtgttctcgg ctactcgtcg ggtggctggg acgagacaat gatgggctcc 300

tacggggagc cgataggccg ggacgggctt caagacctct ggcagatgta cgatatagcg 360
gt 362

<210> 17472
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B3

<400> 17472

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gtggcactgc cgtcctcgtg ccggggcccg cggcgggggg gaagccggag ggcgcggatg 120
gtggtgacgc gcgcggcggc gtcgagcccg aagctgccga acgggcggcg gctgcgggtg 180
gcggtggtgg gaggcggccc cgccggtggc gccgcggcgg aggcgctggc caatggcggc 240
gtggatacag tgctgatcga gcggaagatg gacaactgca agccctgcgg cggcgctatc 300
ccgctgtgca tgggtgctgga gttcgacctg ccgctcgacc tcgtggaccg caaggtgagg 360
aagatgaaga tgatttcgcc gtccaacgt 389

<210> 17473
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B4

<400> 17473

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ggctgggctg cgccacgctc tacctcgccg ccaccttctc cgtcaacgct taccgcggcc 120
tctcgtggca ctccgagcag tccaagctag aaaaggcgaa aaccgaagat tgaaaaagac 180
cagcaagcag ttttagagag cagatgaaag gcgggcattt ttgttgatgt cttatctttc 240
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agtatgtgat atatatatac gattcaagaa cctgtctggg atgattattc atctttcggg 360
acacgtcctg gttggatcat tatataacaa catcgcaaat gtccctgggta tgtaacattt 420
tttac 425

<210> 17474

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B5

<400> 17474

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tcgtgcccgg gctcgatggg aaccctaact cgggtctcct cgagctcggg accaaaccag 120

gatgcttctt ggcgacgggc acgaactact ccgcagggac gaggattgaa gtcaactgca 180

agagtccct tgagagcatt ggcgggatac tcgagcatgc ggcgagcttt tcgcaaactg 240

accattgag gcagtatcac ccgatcagct ttgtcgcgaa gggggtggcc aggaacttcc 300

tccttgagcc attgtacagt ttgagggacg aattctacac ggtttacttc aacgtcaggg 360

tctgagtcct gacgcttaca cttgcagtag aagtaataca gaataaat 408

<210> 17475

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-B6

<400> 17475

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ggagcatagc ggcggcgtcg gcgggcagtg gctgtacgac ccgagggcgg acggcggcga 180

cgcactctgc gctgccggct cgcacagcag catgtacgcc gccgtccggc tcatcatccc 240

gatggagctc acgggcgtct ccgacttcgc cttcgtcccc agagacgacg gcaccggcga 300

ctcccgccgg taccgggggc acgctgagtt cctgaagtac atcagggact tctgcgacgc 360

gttcgggctc atggacgtcg tcaggctcaa caccaacgtc ctgctcgtcg gcctgtcggc 420

g 421

<210> 17476

<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-B7

 <400> 17476

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 ctgccaccaa gttggcactg tccagagctg tgtgcgctgt cttcctgtgt ttgtgatgac 120
 cacagccacc aagttcacca caccatagcc agaacattct agggagttgc tggcctgtat 180
 gaagcttggt ccgtaatcat ctccagagctc ccagcagaag gagtgtaaat taaagatgaa 240
 gtggtcgtgg aagaggagtt tgctccagtg catgttcac aagtggatgg agctatctaa 300
 ctgggttattg ggtagaagat ctagaacctc ttcattgcaa taaggatgag agaagtactc 360
 gatctgttcg tgaggctgga gagggtttcc agttctggac gacgact 407

<210> 17477
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-B8

 <400> 17477

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 gatgggccta cgtcagtggc agctgtcatc cagcgggtggg ctgagcgcaa caagcatttg 180
 gagtatgagg aatctgagga ggcaaagcga ccaagaaaag cacctgcaaa gggttcaaag 240
 aagggctgta tgaagggaaa agggggggcct gacaatactc aatgtggata ccgtggagtg 300
 aggcagcgta cttgggggaa gtgggttgct gaaataagag agccaaatcg tgtagacaga 360
 ctctggctgg gtaccttccc aaccgcggag gatgcagcta ggcctatga tg 412

<210> 17478
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-B9

 <400> 17478

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aagcctaaga acccggttgtt cgcgagcgtc ggaggagacg tcatcggtccg cgtcgagtc 120
cggttcggtcc tgaaccagat aagcgggcag gtgctggagc aggccgagtc ctgggacctc 180
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accaagggag accagaatct cgaggcctat ccggatcctt ctgctgatcc tacaaagcgt 360
tgttttgggt tgcagttctt tcagaggccg gatgatgggt tcagcca 407

<210> 17479

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C1

<400> 17479

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tgtctagaat ataattgtat ctagacattt aagaaatgaa aacaacacat gagtcagcca 240
aacgaggaat ggaggaaaga aattagtgta aagcaactcc aataattatc taaaaagagc 300
atgctaaaat catatttaat aagttgctaa atagctacgg gagtaaaaaa taagaaaaat 360
tctctgttga gggtaatgct tcgtagccga agatcctaga aagaacac 408

<210> 17480

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C10

<400> 17480

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gaagacgacg acgacggcgc agccggtctg cgcggaggag tcgctggcgc tgctcaactg 120
cgtcgctcgt gtcccctacg accgggatat gtgcctcgcc ctgcgacg ccctccgtga 180

atgcatcgtg cgcaagaggg tgaagaagtt ttcgctggca gaaccaagct ccaccacaac 240
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 gtttcggaaa ctgtatcatc tgattgggcg cggttgatga taactctatg cctgttaatg 360
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<210> 17481

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C11

<400> 17481

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 gggtaagaag aaggcgaaga agtcggtgga gacctacaag atctacatct tcaagggtgct 240
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 catcaacgac atcttcgaga agctcgccgg cgaggctgcc aagcttgcg gctacaacaa 360
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<210> 17482

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C12

<400> 17482

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 aagccttcgc aggtgctggt gtcggcgctc gccgcctggg cgggtggctct gctgctgctg 180
 tgcgcccgcg cgccgcgggg cgccgacgca gccacggcgt gcgacgccgc gcagctgacc 240
 ccgtgcgcgg gcgccatcat cgggagctcg ccgccaccg cggcgtgctg cagcatgctc 300
 agggagcagc agccgtgcct gtgcacgtac gcgcgcgacc ccaagctgca gcgctacgtc 360

agctcgccca atggcaagaa cgccatggcc gcgtgcaatg tgcccgtgcc

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C2

<400> 17483

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ttctgctcat ttatctcttc ttgcatacag aaagatccgg ctgagaggat gtctgcttca 180
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gaagcctttg ttgtgccttc agggtttggc ctggaagcct cttggcatct gctcctcaac 360
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gcataag 427

<210> 17484

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C3

<400> 17484

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atactacagc tgcgaagcct tcatcgctac cagaatacgg gacaattacc accccgtccg 180
cactctacga tggcggcgcc tcggggccacg gctcacgcgg cctcgcggtg tctctccggt 240
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actggcctcc gggaaaatag gagccgcgtc ctgagcgttc gtgccaatgt tgccacaggc 360
gttcagacag ccagcactgt ggctgatgga gcgaaaatgc cgtggtagca caatgatgct 420
c 421

<210> 17485

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C4

<400> 17485

gatatttatt tagtttgact cttgagtttag gcatgaattt aacccaagc tagctagaga 60

agtttttttt cccctttgaa attcttcttt gctcgctctt tcctcctgga tcaaattgcg 120

ttggaggaga agaaacggca gctttctctt tttcgttttt tttgctgct tcaccgtac 180

gataatggtg aaaatatgta agctacgtgg acatcaatga tccacagcat cgttgatata 240

tataatatat agagaaaatt ctctgc 266

<210> 17486

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C5

<400> 17486

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caagttcccc ccacccccac cgctaaacaa aacggagccc accaccgca cgaccaccac 120

cacctcgacc gcgcagcagc agcagcagca gctggatcct aaggactacc agcagcagca 180

gcagcagccg gcgcagcacc tgcaaatcca tatccaccag tcgtagcagg acggaggcgg 240

cggagggaag gagcagcagc agctgcaggt ggtggcgcag cccggggaga ggaggcagca 300

ggcgctcgcg cccaagcgga gctccaacaa ggaccgacac accaaggtcg acggcatggg 360

ccggcggtac cggtatcccc cgctctgcgc cgcgcggatc ttccagctc 409

<210> 17487

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C6

<400> 17487

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 acaaggcgga tgagcaaact gataggcgcc tggcatagca tattgtttcg ttgcattttg 180
 agaatccaaa tttagaggag ctcgagggtg tggatctgca gacactagtt tcctacataa 240
 gctatgcaag gaagtatatt cagccacagt taactgatga agttgcagag gagttaactc 300
 gtggctatgt tgagatgagg aaaagagggg atagccctgg gagcagaaag aaggtcataa 360
 ctgcatctgc tagacaaata tagagtttga ttc 393

<210> 17488

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C7

<400> 17488

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 cgacgaacac caaccagtct gcactctacg atggcgggcg ctccggccac ggctcccgcg 180
 gcctcccggg gtctctccgg tgccaagtcg tgctgggctg ctgagcggag ctccagctcg 240
 tttgccgtct cggcgcttc tactggcctc cggcaaagta ggagccgcgt cctcagcgtt 300
 cgtgccaaag ttgccactgg cgtgcagaga gccagcactg tggatgatgg agcgaagagg 360
 ccgtggaagc tcagtgatgc tcgtcttgc ctggaaga 398

<210> 17489

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-C8

<400> 17489

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 cgacacggcc tcgctcgtcg tcgcgcagct gctcttctc gagtccgaga acccgctcaa 120

gcccgtccac ctctacatca actcccccg gggcgctcgtc accgcggggc tcgccatcta 180
cgacaccatg cagtacatcc gctgccccgt caccaccctc tgcacgggcc aggcggcctc 240
catgggctcg ctctctctcg cggctggggc gccgggtgag aggcgcgcgc ttcccaacgc 300
cagggtcatg atccaccage cctcggggcg cgcgcagggg caagctnccg acatcgccat 360
ccaggccaag gaaatcctca aaatgcgcga ccgcctcaac aggatctacc agaagcac 418

<210> 17490

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-C9

<400> 17490

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ggtgggagag ggcgccgtct cagggtcgcg tccatggcca ccagaagggg ccagaagccg 180
acgccaaga ccgctctccg caccagaaga tcgggcacga cgacggtgtt cccggtgggc 240
gagccgggcc cgcggccggc gacgacgagc ggcaaagcgc cggttaagct gctgacgaac 300
gtggagaagc tgcggctgct gaccaaggcg gagcgcgcg gctgtctgtc ggcggcggag 360
cgcgcggggc tgctcgtgtc ggcgatggag cggctgggcc tactgtccaa gc 412

<210> 17491

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D1

<400> 17491

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ttaaacaagc atctgcccgt agggagggaa aaaaaaacta atctgtcagc caagctgccc 120
aatcgacatt tgaggcaagg ctacaacaaa taaataaaga accccacggc taagcatatc 180
aattgtcaat aaagctatgc agggaaagga gaaattggcg tgcaccacgt ggtattgcca 240
caatgtatta tcaggatgca acagctgtgt gctgcaccat gtcattgctga tatattgtat 300

ctgttatcct agatggtggc cagtatcggg gcacagatct cccgaggatg ttcttaactg 360
gaaatggacc ccagttatgt taatcaaagc tgttggttct gttatcc 407

<210> 17492
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D10

<400> 17492

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tggtcatgga ggaattctgc aaggagttca aggagaagaa ccctaagaac aagtctgtcg 180
ctgcggtggg gaaagctgct ggcgacaggt ggaaatccct gagcgagtcg gacaaggctc 240
cctatgtagc caaggctaac aagctcaagc tcgagtacaa caaggccatc gctgcctaca 300
acaatggcga gagcactgca gctaagaagg ctcttgccaa ggatgaagag gatgaatatg 360
aagacgagtc tgacaagtcc aagtctgagg tcaatgacga ggatgatg 408

<210> 17493
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D11

<400> 17493

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catctgcgag tcggttgatt tattctatct gctgagttgg actacattac ctccatgtcg 120
agactgcgag ctctgtggca ggcttccttt aacgccacaa agagagctct tgtatggagt 180
tcagatgac taattccgcc aagtgaagaga tgtatcttca atttcaactc aaaagatgag 240
ctgaaaacgt ggcatctgta ctacagattca gagtatggag gtttctcttc tgcaccta 300
aaaataactg atggcgcttc agttggagat actccattaa ctggtgtgtt ttctggtaac 360
ctttctttgg atatgtctga agagtcaaca tggaggatca ggcgcta 407

<210> 17494

<211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-D12

 <400> 17494

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 catgtacata tgaagctagc gctagctggc tcaccaagcg cccaaattaa ctaatcaacc 120
 cgtaaaaccc cccatgcatg cactgcattg ctgacgcaga tgcaggcccc cttaatctac 180
 ccccatTTca ttaatcctat cagtaatcat gctactgcta atgacacaat cagagtaggg 240
 taccagtact atgtacagag accaagagaa agtaacctag gatgggggag gggggattaa 300
 ttaattaaca aggaagccct aatccccctgg cggctctggac ggataataat ctagtcagac 360
 ccgaggtcag 370

<210> 17495
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-D2

 <400> 17495

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 ctctctctcc ctctctcag cgtcgccctt cgctcgcta atctctcgcc gcggccttgc 120
 cggtgccgca gacggccatg ggtctgcgaa ggtgcccttg tggaaagatc cgttgagccc 180
 gagcaagtgg aaggaagagc actttgttct agcaagcctc tcaatgtggg gggttatttt 240
 ttatggtggt tacaagcttt ttagtgggaa gaaggaagcc aagactgagg cggcatcacc 300
 acaggcatag gtggcggaga tggagttata cccg 334

<210> 17496
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-008-Q1-E1-D4

 <400> 17496

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gtcacacaag atccggaggc agatcgagga cctcgagcgc gccggagggg tcgagagtgg 120
gaccctcacc gtcgatggcg ttctgtcga cacctacctc accaggttcg tgtgggatga 180
gggcaaatac cccacaatgt ctccgctcaa ggagattgtt ggcagcatcc agtcacaggt 240
tgccaagatt gaggatgata tgaagggtcg agcagcggaa tataataatg taaggagcca 300
gcttagtgca atcaacagaa agcaaagtgg gagcttagcg gttcgtgac tttccaatct 360
ggtaaaaccg gaggatatga tcacctcgga acatcttg acacttctg caatcgttcc 420
caagta 426

<210> 17497
<211> 59
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-D5
<400> 17497

ctcctcccca ctcccagga acaacattca tcacatcg actataaact cttgggttt 59

<210> 17498
<211> 160
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-D6
<400> 17498

cccatgcac cgcgagcga tgggctgac cctgtgtac ttcatagtag cgtgtactcc 60
tactctattg tactaataat aataatagta taatacgata ggagtacacg gtactatgaa 120
gtacccacg cgtccgcca cgcgtcagcg gacgcgtgcg 160

<210> 17499
<211> 427
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB84-008-Q1-E1-D7
<400> 17499

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 ccccaacatc atcaaattag agggcttggg cacctccagg atgtcatgca gcctttacct 180
 tgtcttcgag tacatggagc atgatcttgc tggctcttgcg gcaagttgtg atgtcaagtt 240
 cacgttgccct cagataaaat gttacatata gcagctgttg tcagggcttg agcattgtca 300
 tgacaataat gtattgcacc gggatatcaa ggggtcaaac ttgttggttg ataataatgg 360
 gattcttaag attgcggtt ttgggctggc aacattcttt gatccaagac atanacgacc 420
 aatgacg 427

<210> 17500
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-008-Q1-E1-D8
 <400> 17500

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 caagttatcc tcgtcaccag ctgcgtcgcg tgcccagctt cctgttttcc ctcttctcc 120
 cgcgctcgga catcgccagt gaaggccgc gcgcgcgcgtc gtttgaatcc tggttttctc 180
 cctaactcgt gcgctcacgt cgtcgtcttc ctgctcgttc cgcgacgtcg ctcccagtcc 240
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 gcccgatect tgtgccttgc cgagctcatc accgccgoga gactctgcat cgctgtgctc 360
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<210> 17501
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-008-Q1-E1-E10
 <400> 17501

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tgtggaagag gtgaggatgg tcgtcgacga ggatgtcgga ggcttcggct tcaccagtga 120
 caacgagctg atcaacggaa aagccgccat aatcggcttc ctctgctga tcgatttcga 180
 gcttctaact ggcaagggcc ttctcaaggg gacggggttc ttggacttca tctacgcagt 240
 ttcgggagct ttcaactgag agtcatatgt gtgtttgttg ttcgttcctt ggtatcaaga 300
 atgccatcga ggtgtacttg actaccetta gaagcctagg ttttgtcagc gtgcgattca 360
 gtcagctgtg cttgtatttg aacatcacca tgcttgtctg tgaagtg 407

<210> 17502
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E12

<400> 17502

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 tgaagcgatc aactctcaag ggcaaggcac agttgcgga gatggagaat aaggggcagg 180
 aggtagagca caggtgcctc gtccgcgcct ccaatggcaa gaagaacatc tccacctcgg 240
 tttctctaaa ggagtacaca aagtttcaag cttcatacgc aacagttctt aaggcccata 300
 tgcattgctc gaagaaaagg gagaggaaag acatgaagaa gactgcagat gctgagaatg 360
 caattgagac cgcaccaag aagcagaaga aagcat 396

<210> 17503
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E2

<400> 17503

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 gtccgcctcg tgccgccacc gcgggcgtgc ggctgaccgt gtctgacgcg gagctggagt 180
 cccgcgggtt cgctgtgctg cgcacggcgg agggcatcaa cgtggcggcg tctcaacgag 240

gtgttcctgc gcatgggctt cccgctgtcg tcaggaggag ctgctgccgc gcgcgctgga 300
gcacatccgt 310

<210> 17504
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E3

<400> 17504

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cagggtcgtc cgccgccacc aattgctagc gcaatcctag ccctagccca gcgccccctc 120
cggccctccc tgcttcgtgc ttggtagcga tggcgctcgtt ttctgaagcg cccccgggga 180
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agggcgccgg ccacaagcaa ggtcctaatt tgaatggctc gtttgggagg cagtctggta 300
caacacctgg ctactcttac tcttcggcta acaagaacat ggctgtgatt tgggaggaga 360
acactttgta tgactacttg cttaatccca agaagtacat tcttgggaacc aagatgggat 420
tccctggact 430

<210> 17505
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E4

<400> 17505

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caccatacca gattggccat cagaagattg ctacatttgg gaatgatgat cacaggcgct 180
gttccattgc ggaacattgg gaagagagca gacgatctct tgtacaatga ctacaacttt 240
ggccaaaact tttctttgac tacatgttct aactctgggt tgaatctcac agccattggg 300
gtgaagatca ttgaagactt caatggtgat atacggacac agcagttgaa gcggaagaac 360
cactgttggt gtcataatcg atactgattc tacagtgtca gacacagtca ctgttgatga 420

<210> 17506

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E5

<400> 17506

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cgcgaccgga caaccagcgt gagcgcgacc ggcgacatga ctgcgggcaa ccagcgtgac 120

cgcgaccgtg agcgcgcggc ggcgcggaag cccaacgcca agaactccca ggacgggctc 180

accccgaggc agcgcgcgga gagggacaag aaagctctgg aggagaaggc ggccaagaag 240

gcgcagcagg cagcggccgg cggcaccggt acctccacgg acaacaacaa gaacaaggca 300

ggtggcaaga agtaggaggc agtggcgcgc cgccacctct gtacgattaa tcgatgcctt 360

gagcttgtaa cttgttcgca tcctttagg tgcgatgctt gttgggtcac taactctgat 420

gata 424

<210> 17507

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E6

<400> 17507

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tgggcttccc gcggcgtcag gaggagcggc tgcggcgcgc gctggagcac agccgtgtgg 300

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acggcgtgtt caacgccgtg gtgt 384

<210> 17508

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E7

<400> 17508

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gtccctgcag gtgcgcgagc acgccagcaa gacctccttc tccgcgggga ggatgtcggg 180
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tttgtgtttg ctcatgaggg tcctgtgttc ttgtttcact tgcaatatcc cccatttgg 360
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tct 423

<210> 17509
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-008-Q1-E1-E8

<400> 17509

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catcaccatc gccgactgga gcgcctccta cgtcaccttg caccggcgct ccatgcaccc 180
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ggtgaagagg ctgattgcgc tgcctgnnga ttggattcag atcccggaga aacaggagat 360
ccggcagatc ccgcangggc gctgctgggt tgaagggtgac aatgccgccca ccagctttga 420
ct 422

<210> 17510
<211> 409

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E9

<400> 17510

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ccggtcccat cctctacggc ttcaccccg cccaatcca gtctgtacgt gaatcttgac 180
aggggagaga agaatcggat aaggagacct gcaccttctt ccgagcaaag caggagagga 240
aacaagaata gaggaggaga tggccatgcc caccttacgc cttgctcctg acctgccgcc 300
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gtccgcctc ctgcagccg cctacgacgc cggcgtcaac ttcttcgac 409

<210> 17511
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F1

<400> 17511

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cgtggcaact gccgcgcatg aaaccaaggg gtgtatcgag caagtacacc aggttggtat 180
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aatgaacggt agttacaggt ttgtacccat gccgcagact tgc 283

<210> 17512
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F11

<400> 17512

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cctcgccctt gctggggata tcggccactg ccatagcgac caccctgacc tccactgttc 180
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cggggctttg tacagtcatg gcctgaccca gctgccacag gaagcacatt gtgcataccc 300
tggtcatgcc tgatttgatg atgtgcttgc cctgcctgca ggatttgagg caagcgagaa 360
tctagtggac gattatcaag tttttga 387

<210> 17513
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-F12
<400> 17513

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gcatccagcg cctcaagcgt gccatggacc tccccatgaa gcaccagtac ctcccggagg 360
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<210> 17514
<211> 203
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-008-Q1-E1-F2
<400> 17514

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cgagttcagg catccgaacc cctccaacga cgactgggtc cgcgctcttct ctccctccgg 120
tttcaaggaa tccaacgacc aagggaagtt taagggtccgc cataccaaca acggagaagg 180
actgaaggcc ggaaacggac cat 203

<210> 17515
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F3

<400> 17515

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accgagttcc tgctgctcat ggtggcgctg gacaagctct acttcacgcc gctaggcaag   180
ttcatggatg agcgggacgc caagatccgc ggtgagctcg gcgatgtcaa gggcgctcc   240
gaggaggtga agcagctgga ggaccaggcg gcggccatca tgaaggcggc gcgcgccgag   300
atcgcgggcg cgcttaacaa gatgaagaag gagaccaccg cggagctgga ggccaagctg   360
gacgagggac gcagccgtgt ggaggccgag ctctagagg cgctcgccaa cct           413
  
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<210> 17516
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F4

<400> 17516

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agaaccatat gagatcagca atggaaaagc tggaatgtgg atttgatttt gttgaagtct   180
ggaaattgga aggtgacgag ggcattgaaa cactcaatgc aggagagaat tccccaaacta   240
ccaatggcgt gactgtgctt ggggctcggc aagttcctga agcgggtgca cttacagggc   300
atcctgatcc tatagattca ctggttgata atgacttcga gacggttata gaaaacc       357
  
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<210> 17517
 <211> 69
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F6

<400> 17517

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gagtaccag 69

<210> 17518

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F7

<400> 17518

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tctcccgag ctgcgccg cg tacgccttgt tcagcgacgg gtccctgcccc acgtggccgc 180
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ttcctgcact gcatgcagtc agggattgtt ccggtgtgtac caccgtcgtc gatcgatcag 300
tcgtctagct actttgcttg caggacgtac gtacgtacgt agttggacag ctcattgggt 360
gtattgtacc tgacaacacg acgacgtcct tccagcccaa ccccttgaag ctgaag 416

<210> 17519

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F9

<400> 17519

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gtatagacgt acttaataag cagggtgtacg taccttcacg aacctgtaag attgttcaga 120
tgtatataat tctacttagt gcacacaggt agtggataat aatggataga cgaggaagtt 180
tatgcattcg gctttgtgct ccaggagcct gtagtgtgtg aacatgatat gtatgaatgt 240
attatatatc tcaagtgtgt ttatggagta aaaaaaaaaa gacacgacaa taatcgaaca 300
tagaaaagaa agcgacattg agaagaccag aatacatgaa catacgtaaa taaaagtaca 360
aaaaaataaa aagggggggc ccccaaaagg ttccacgctt actt 404

<210> 17520
 <211> 412
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-008-Q1-E1-G10

<400> 17520

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 gaacatccgc ctcaacttca tcaccgtccg caagctcacg agcaaggctg acgcgttcga 180
 gtacgcggac caagtcctgg agaagtggta cccacgatt gaggagggca acaacaaggg 240
 catcgtgggtg ctctgcacaa gccagaagga gggcgccgtc accggggggc ccgccttcac 300
 ccaggccgtc ggcgaccaga ttctcgacgc caccgtgtct gagaacctcn cagtcctcgc 360
 gaccgacgag aagtacaacg aggcgatctt gagcacggcg aagcggctgg cg 412

<210> 17521
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G11

<400> 17521

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 cagaagtcag ttggctcttc caatcttcac tgggtgaaaa gttgaagggtg agcagggagc 180
 agctatacat gttgtgctgt tggatgcaaa cactggatgt gttgttactt caggacccga 240
 gtcatttgca aaattggata tccttgtgct tgagggtgac tttagtaaag aggaagatga 300
 ggattggaca gaagaagagt ttgaaagtaa tattgtcaag gagcgtgaag ggaagaggcc 360
 tcttttgaca ggcgacctgc aagtgactct taaagaatgt gttgggacca taagggagct 420
 tacattcact g 431

<210> 17522
 <211> 407
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-G12

<400> 17522

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gccattgaaa atgcgaagac gatgggggcta tgcaacaccg atcaatccgt tgtggccctg 180
caccgcatcg ggatttcacg cgtcatcaag cttcttactg tgaagtangg gtccaagggg 240
gagggacacc attttgcttg gtgaattttt gtgaggctgc ttacgcacat cagcgtatcc 300
acagcttttc tgttgccaaa gatacagact ttgcgttctg gtacaccttg gtgttacaag 360
gttgtgggaa tttgtcgttt agatattagc gatttaaaca gtttatc 407
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<210> 17523

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G2

<400> 17523

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gctgagccgc gtcaccaagt ccgacgtcaa gcggcttgcc cgcgacctcg aggcccgcaa 120
gaacatccgc ctcaacttca tcaccgtccg caagctcacg agcaaggctg acgcgttcga 180
gtacgcggaac caagtccctgg agaagtggta cccacgatt gagggaggga acaacaaggg 240
catcgtggtg ctcgtcacaa gccagaagga gggcgccgtc accgggggggc cgccttcat 300
ccaggccgtc ggcgaccaga ttctcgacgc caccgtgtct gagaacctcc cagtcctcgc 360
gaccgacgag aagtacaacg aggcgatctt gag 393
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<210> 17524

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-008-Q1-E1-G3

<400> 17524

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tgcaagaag ccagcggagg aggagccgc tgccggaag gcccgggtg ggaataagcc 120
catggcctag aagcgcctct cggcgggtcaa gtcgtccggc aaagaaagcg gcgacaagaa 180
gggtaagaag aacgtgaaca agtcgggtgga gacctacaag atctacatct tcgacgtgct 240
gaagcacgtc caccgggaca tcggcatctc ttccaaggcc atgtccatca tgaactcctt 300
catcatcgac atcttcgaga agtcgcccgg cgacgtgccc aagcttgccg gctacaacaa 360
gaagcccagc atcacctctc gggagattca nacctctgtc cgccttgtcc ttc 413

<210> 17525

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G4

<400> 17525

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cccttcattt gctgaatcta ttggcgtaga cagtgaagg ctcttgatag cccaacctga 120
ttctgctgaa aattctctaa gcattgtaaa cactcttggt ggtgggtctg ttgctgttgt 180
tgttggtggac agtgtggcag cacttattcc caaatgtgaa attgaagggtg aaatatacac 240
aaattgtgga gacatccaat cccatttgat gactcgggcc cttagaaaaa ttcagtacac 300
tttatgtcga tctgaaacac ttattatatt tgtgaatcac gttagaacag agaggacatc 360
aagtaatcct gggatctaca aagaggtgcc ttgcgggtgt aatgcactag gat 413

<210> 17526

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G5

<400> 17526

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acggcatcat cgaggagtcc ttctggccgg gcaagtacgc cgtcgagctt agctccgtgg 120

cgtacggcgc gacgtggcag ttcgacacgg aggcgctgcc caacgacctc gtcaagcgcg 180
 ggctggccgt gcgcggggag gacggggagc tggagctcac catcaaggac taccctacg 240
 cccacgacgg gtccttggc tgggactcca tcaagcagtg ggcgtccgag tacgtcaacg 300
 tctactacaa gtccgacgag gccgtggccg ccgaccccga gctgagggcg ttctgggacg 360
 aggtgcgcaa cgtggggcac ggcgacaaga aggacgagcc gtggtggccc gtgctggaca 420
 cccg 424

<210> 17527
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G7

<400> 17527

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 catgtcgacg tccatggcca ccacggcgcc agcgaagccc cccgcgccgc gcgggcaatg 120
 ctgcaggtac ctctctctcc cctccaccgg ccaccgccgg agcgtggcgg catggtctgc 180
 caaaaagaag aaccctgtggc tggaccctgt cgacgatggg cccgacgagg agttcgatta 240
 ccagggcatg ttctccggcg ggaagcagga ggaagaccc 279

<210> 17528
 <211> 361
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G9

<400> 17528

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 cccgctcgtg gctcgtcagt ggggtgggagt gtgcggggct agccgctagg gtttccgcga 120
 gcccatcgcc ggccggccac ggacgatccg ggactccatc cggcgcccgc cctgaatcgg 180
 cttcgcgggg cgcaaggagc gagagaatga agtcgtcgct gcggaagctg ccgggcttcg 240
 cgctgcagcg ccaggagcag cgggtggacc gggaccgcgg ccggggccac gccgcccgg 300
 ccgccacggc ggctgacgag ctctcgcgg ctgctcatga tatggcagat atgagaagct 360

<210> 17529

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H1

<400> 17529

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tcccgcgccc aacaatcgcg tcctgtgccg aagggccggg gtgctcccgg cactcagaag 120

ctcgagaca tctctgccga tgtccgcgtc atacatctac cgtagcgat tgcgtagag 180

cttcccgc 187

<210> 17530

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H10

<400> 17530

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gctcacccgtg tgccccggcg agcgcgccat ccagtgcacg caatgctgcg gcgtgacgcg 180

tatccggcgg cgccgggtcc agcggccggc ggcggcgccg cccaccacag gcttcgcgcg 240

cgcccgcggt aagaagcggg gcctccggat cggcatcacg tacgcgggga cgcgccgggg 300

ctgcggccag ctgagggggg ccctcaaaga ggtaaagtg cat 343

<210> 17531

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H11

<400> 17531

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gttccagctg cggcagggcg gccaacaccg gcacctcatg ggcgccgacg acgaatccgc 120
cgccgccatg gaggtgcaag agagggaggc ggagatcgag aatgccatgc gcgcccgcgt 180
cgcagacttc aataagcagg cctactcctt gactcttgaa tgcgttagga cagcactggt 240
aaaggacctg gatttgaaga tatattcact tgatgcacat agaaggttta taaagcactg 300
tgtatacaaa gtttttgctg aatctgctga tgaaaatgca aatgatgatg cattagatga 360
ttctgatgct aaacatga 378

<210> 17532

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H2

<400> 17532

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ctgcttctcg cgcgategtc tcgggctctc gggattctac agtggaggcc ggctctccgc 120
ctgttcttgt cgtcgctgct cctttcgcag tgagcttaaa atatacacag gatgtccgaa 180
cgttctgaga gcgcaactga aaagattatg agcagcatca tggataccat tgctgacaac 240
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aagctgtttg gtcgtcagaa gaccttgcac ggagttctgg gtgggtggaaa acctgctgat 360
gtgctgttat ggaggaacaa aaagatatca tctagtgttc tggctcttgc aatagctact 420
tgggttttct ttgagt 436

<210> 17533

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H3

<400> 17533

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gcgatttgaa aattgagttg ccatttcact tactatcgcc gattgcgatt ggaggtgcgg 120
cagctggaat agctagcact ttggtgtgtc atcctcttga gggtcttaag gatcgcatga 180

ctgtcaaccg tgaggttat cctagtattg ccattgcctt cagcaagatc taccgaactg 240
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gcacatgcta ctatttcattg tacgagacca tcaagactaa ctactgccgt gcgcacaaga 360
tgaaatcttt gagccgtcct gagctgctgg ttatcggcgc tctttc 406

<210> 17534

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H4

<400> 17534

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gcgaggggaa tggagcaagg agacgaggcg tcgtcgggtga ccaaggagag cccggagcag 120
cagcttacctt gggaccggga gcagcagcac gacgcgggcg tggcgtggct gaacctcacg 180
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tccgggtccg ggtccgggtc cgggcccgag cccaccgcca atccgtccgc cggcccgcac 300
aagggtgttct cctgcaactt ctgcctgcgc aagttcttca gctcgcaggc gctgggcggg 360
caccagaacg cgcacaagcg ggagcgcagc gccgccaaagc gctcctacca cgcgcaccgc 420
atga 424

<210> 17535

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H5

<400> 17535

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cgccgccttc cttccttctc ttctgctgct gatggaactg gatcctcgcc tctacgagaa 120
cgtctctgtc agcgacaacg atgtccgaaa catagttcta tcttatctta tgcacaactg 180
ttttaagag acggcagagg cattcctatc tagcaccggg ttgaatttac ctgtcgacta 240
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taaagccata gagctgacag aagaaatggc acctaacttg ctagagaatg atatggatct 360
acattttgat cttcttagtc tccacttcat tgagctagtt cgctccaaga aattcacag 419

<210> 17536
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H6

<400> 17536

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ggatcatgtt ctcatctgaa catatctgat gacttgctag catataaaga tgtcatagca 120
aagggttatct atgacaaaaa ttatccaagg attcagaccg tggatgaataa agtggggaca 180
ataacaaatg aatttagagt cacgaagttt gagatcttag cagggaaaaa tgatatgggt 240
actgaaatta aacaatatgg tgcaacattc agacttgatt atggtttggt ctactggaat 300
tcaagactcg agcatgagca tatcagatta gtttcacctgt tcaagaaagg agatgttata 360
tgtgacatgt ttgctggtat acgtccattt tcaatcacgt ctgctcag 408

<210> 17537
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H7

<400> 17537

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catccgtacc catcctgcac acgaagccta gaatagccct cccctgctcc gccacctcct 120
cggatcccga ccaccccacc cccaccccag acaacagggt gatggagggt aagatgggac 180
gcttcttcga gtccgtgagc aatttcttca ccggaggcga ccacatcccc tggatgcgacc 240
gcgacctcat cgccggctgt gaaggagagc ttgtcaatgc tgcaaatgag gaacagagga 300
atgaaagcct tatgagggtg tcatgggccc ttgtgactc caggcagaca gacgatgtaa 360
accgtggaat cagcatgctt caagcttctt tggataattc tgccagtcct ctgcagacta 420
gggaaaaa 427

<210> 17538
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H8

<400> 17538

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ttgaaggatt gtcacatata acagttgctg gtgcgctcaa tcatgggatg aaagaagtgg 120
aagtgtggct tcagacaata agtccaggct aaaggacgcc aatccacagg cattcctgtg 180
aagaagtttt cactgtcctc aaagggaagg gtacgctctt gatgggatca agctcactaa 240
actaccacag gcatccacag gaaattcctt tctttcagaa taccacattt tcaatccctg 300
taaattgatcc acaccagggt tggaattctg acgagcacga agatttgcaa gttcttgtga 360
tcatatcgag accgcctgct aagatatttt tatatgatga ttggagcatg cctcataca 419

<210> 17539
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-H9

<400> 17539

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cagctggaat agctagcact ttggtgtgtc atcctcttga ggttcttaag gatcgcatga 180
ctgtcaaccg tgaggcttat cctagtattg ccattgcctt cagcaagatc taccgaactg 240
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gcacatgcta ctatttcattg tacgagacca tcaagactaa ctactgccgt gcgcacaaaa 360
agaaatcttt gagccgtcct gagctgctgg ttatcggggc tctttca 407

<210> 17540
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-A12

<400> 17540

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tgggcgatac agggagcatc tccattctgg tgcattttct ggtggtcgcc ctatgcctga 120
cctccttttg cttcgccgtc gccgcctatc gccgtccgca gcaggggttc aatatacaca 180
gacagctcca atgccacatt ttgtgtttac gactccgata ttgctactgg gtacgggtgtt 240
ggtgcctttc ctgtttcttc tctc 264

<210> 17541

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-A6

<400> 17541

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attgatgggtg attatcatga actagctgag gatgcaaaga ctgcctgccg ccaactagat 180
gcttatattg actacaaacg ctgtgaggggt gttgcagaga tcattgtagc tcctaatatg 240
tctgatgggtt tccgtacat tgtgcagaca atgggcctag gaaacttaaa accaagtatt 300
gttgtgatgc ggtaccctga gatctggcga cgtgagaatt tgacacagat agcgtcaaca 360
tttgtcagca taatagatga gtgcattatt g 391

<210> 17542

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-B6

<400> 17542

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cgacgcccgc ctgcagctcc tctgcgcgcg catcgtaag tactactccc tccgcccatt 120
cgtcgccgag accggccgcg cgcccgagga gtgggaccgc gcgcacgacg ccgccatgtt 180

ccattactcg tccgggatgc aagccatcat ggtcgccgtg ggagtgtgcg acagagtcag 240
 cgtgtttggc ttcggcaagt cttccgacgc caagcatcat tagcacagca gccagaaggc 300
 ggagctagac ctccacgact acgatgcgga gtaggccttc taccacgacc tctccgagcg 360
 accgcaggta gtcccgtt 378

<210> 17543

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-B9

<400> 17543

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 gggcccttcg acaacctgct gcagcacctg tccgacccat ggcacaacac catcatccag 120
 accctgtcgg gttgagtcga cgggccatca cgtcatgtgg tccgagctga aaagccgaga 180
 ctccaagaca gttcgtgtga tgcgttttta atcgactgat ggctaaggaa tgtgacgtac 240
 tggatatatgt acattagttg aagcggaagc tataaaaggt gtacagattg tttcatcagt 300
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<210> 17544

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-C9

<400> 17544

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 aggcgccggt gtttcattgg catgtaacat ctacagttga gtccagggtt tgcctatca 180
 gttttgacta tgatgtatgc ttgactttgt ggtgctgatg cgatgtagaa gaatttctcg 240
 gaacgattat gctgagagaa atcaacagct tgtaagagct taaagtacag tcatggttac 300
 gaatctgccc cagaccattt tcagcactaa aa 332

<210> 17545

<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-D9

<400> 17545

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ttttgatttc caagttatca ggtcttcttc agaaccaagc tggtcggttg aaccacactt 120
atcattgaag taattaagcg gttgtatttc attgttgatg taatcaaaaa ttttagttcc 180
ttcaaatata atagatgaat cattgctaaa tcta'acattg ttgtcaatgt tttcatagtt 240
ccaagaacga aaacatttat ctgatgtcct gttaagtgtg tgcaagggtcc ttggatgact 300
gcaagggtga tcaaccaaca aggatgggtg agaaaaatga tttaaagtat ccttgaggga 360
gggactatct atcaagtcac tgttccatag agcatgaata taagggaat tcatctggtc 420
aat 423

<210> 17546
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-E4

<400> 17546

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caactgataa gaatacgccc ttttgtttgt ttgtcaata cgtcggcttg agctgtttgt 120
gtagtgcgcg agcagctaac ctattcgaaa catttaccgg actgtgaaca cgcccacttc 180
atccatgttg gcaccatggt gtaaaatgag aacactcgtg gctccagggt tattttatag 240
tgtcttgga gacgggctg attttgcct cacctggctt gtttcacata gagacaacca 300
agaaacgtgt gttcattgtt tattgagata tggataccaa agcaatgctg aacttttagc 360
atagtttttt ttaaaagaaa gaaaagaaaa aaaggcgggc gctcta 406

<210> 17547
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-E6

<400> 17547

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gcgcgaggac cacctccacg gccacggcaa gacggccaag gtgatgcacc tgctgctctg 120
gggacccaag tgaagcggcg agaggccacc gtaccgccgg cgttgctcgt tttgctctgc 180
ctgcaatccg ccccgcacgg actgtactgt actgtaccta tacacctata tactacgacg 240
tgcacatgta cgagtctacg acgtgctgct gtaccatact aatactagtg cgctgctgct 300
cccttgccct cttgcttgca agttgcacca gccactccgc ttttttttgc tcgaacgac 360
gactgctcgt cgcgtcgggc caccggccgg cgtcagtttg ggtgtgtcca 410

<210> 17548

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-E9

<400> 17548

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gaaagtagat gttatcacag gatggctaca taaaccttct gtgtgaagta aactgtgagt 120
acgaagtcaa tccttggaac cagaaaatgc aaaagagatc tacgtgcaag aagtagctct 180
gccactactg gacttcacta ccacctttct ctacatcat ccgatttggt ctgttttccg 240
taaagtgggt gttegtatc agttcaagtc actggcaggc cgtggctgtg gatcatcacc 300
ttcacaaga gaatatcgaa agaatttct tcttaacgat gaattcatca gctttggaag 360
gactgattga cttctcc 377

<210> 17549

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-F10

<400> 17549

acgcggaacc ggcgagcgcc tggcgcgctg cggtacgcc gtctacggcc tggactacga 60

gggccacggc cgctccgacg ggctgcacgg ctacgtgccg gatttcgacg cgctgggtgct 120
 ggactgacgac gagtacttca cctcagtggg ggcgggcgcg gcgcagtcgc agtccaagga 180
 cgcccagcaa ctccccgggt tcttgctccg ggagtccatg ggcgggcgccc tggctctcct 240
 cctccaccgc cgggcgcccc agtactggag cggcgccctg ctggtggcgc ccatgtgcaa 300
 gatcgccgac gacatgcggc ctcaccgct ggtggtcaac atcctcaggg ccatgagcac 360
 catcatcccg ac 372

<210> 17550

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-F12

<400> 17550

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 cataaactag cacaacttca gcaacggcag cagcagcatt tgttgcaacc attttctcag 120
 atgcaacaac cccaagttgg tattcctcgg cagccgcaac ttaggccgcc attgggacag 180
 actggaatgc agttaggtgg tcctgttagg actcctatcg agaggggcgt ttgttctcgc 240
 aggatactgc agtatctatt tcacaagcgt catcgcccag agaataactc tataacatac 300
 tggaggaaga ttgttgaaga gtactttgca cctcgagcaa gagaaagggtg gtgtgtctct 360
 tcgtatgaaa acagaaggaa ttcttcagct 390

<210> 17551

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-F9

<400> 17551

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 cttcaatccg gccagtgcga aagtgttttc acggtttgac tcccttaagg aggcggtgaa 180
 gaattataca atcgaagcca cccagatga cagggcatgt gtcctacaac agggggggaat 240

gtttgtgttc aaaggtaaag agctgttgta cgcaaggaaa gacgatggca caggcgacca 300
 tgcacctttg gatgacgtgc tcaatgtctg ctgcaaagtt cctgtaacct aacccga 357

<210> 17552
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-G5

<400> 17552

agaatgcttc cctgtgtgcc caaagcattg ataaagccag caggtaatga tctagcacia 60
 gatggactac gcctgtggtt agaagaacac cttaggcggt tacagagtgg catgatcaag 120
 acccgtatgc tgatggcatc gagatataat agcttatatc cacacgcacc tccatcatgc 180
 agttcagctg ttacaaatgg cattaaggta cgctcatctg ctgtctttgt gccagaacat 240
 cctgagaggc ctgcggaaaa atttatgttc acttactcaa ttgcgatgtc agttccatag 300
 gcatgcatgc gatgtggcgt gtactattcg tctgcgagc ttgctcgcg ccactggacc 360
 atcagatcgt gtgagagggt tgtgtctgat gtgagcgggc gacgg 405

<210> 17553
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-G7

<400> 17553

tgagaaatct gtgggttcct ccttccagct tgtgtttgca ccaattgatg agcattttcc 60
 ggatgatgct ccattgattt cctctggcct tcgtgtcata ccatttgata tgaaaacaga 120
 tgggtgatcc tctggtagga cgctagattt ggcatttagt cttgatgtgg gttctgctgc 180
 accccaagcc tcaggggatg cacctccaga tgactgtaat ttgagatctg tgctgacaat 240
 cgcttttcaa ttcccttatg agatgcacct tcaggacagt gttgctacta tggcccgtca 300
 atatgtgcgt agtgttgttt ctgctgtgca aagggtgtcg atggctatat ctccctccca 360
 atctgggtcta aatgctgggc 380

<210> 17554

<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-G9

<400> 17554

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aacgactgta tgtagcgtac ggatgattta cctgacgcca attcttgtac tcttggcttc 120
catgtaaata agcccccca taatcatccg aattcattta tttgtacgta gaaagttaag 180
acacttagat aactcgcgcc atcattcaat tattgaggtc atttccggga ttgtggccct 240
gctgctgtaa actgattttg caccgggta tttttttttt tgtacaggtg aatttatctc 300
atgtagttat agcttagtgt agattgggtg tgagtacgga ctaaccctag tgacagtaac 360
attgggtgtg aagtgtggcg tgatatctgc tcccctgggt gtgttttccg 410

<210> 17555
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-009-Q1-E1-H10

<400> 17555

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aattttcgac aatttgttgt gttgaactga acctccatga cacaagctaa acctgcacct 120
agtggcaaga ggaactggag cagtggcggg actgccgctg ggacggagaa caaggaaaga 180
cgagatgaca aagcaaaagg aatcacggtt gctggttga acaagggcga caagaagaaa 240
gaagacaaag ggcgacaagt aagtgcggga tcgaagaggc cgtggagtga gggagtgcct 300
cgggttggtg tgaagagggc tgtgtctggg ttgacagga ggaacaggaa gatcgatgat 360
gactcgttgg atgatgaatg tggcaaggat gtttcatcct tcaaattcaa ag 412

<210> 17556
<211> 339
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A10

<400> 17556

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ggagaggggtg cgctatgggc gatacaggga gcagctccat tctggtgcac attctggtgg 120
tcgccctatg cctgaccgcc tttggcttcg ccgtcgccgc cgagcgccgc cgcagcacgg 180
gttcaatagt cacagacagc tccaatgcca cattttgtgt ttatgactcc gatattgcta 240
ctggctactg tgttgggtgt ttctgtttc ttctctcaag gactcactg ctcatgggtg 300
ttacaagatg catgtgcttc ggtgaacact tgcaccagg 339

<210> 17557

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A11

<400> 17557

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gatgtcttgc aactgcggat caagctgcgg ctgctggctca agctgcaagt gcggcaagaa 120
gtaccctgac ctggaggaga cgagcaccgc cgcgcaggcc accgtcgtcc tcggcgtggc 180
cccggagaag aaggccgcgc ccgagttcgt cgaggccgcg gcggagtccg gcgaggccgc 240
ccacggctgc agctgcgggtg gcaactgcaa gtgcgacccc tgcaactgct gatcacatcg 300
atcgacgacc atggatatga gtattatcta tccagcttgt ggtgggtggtt gaacaataat 360
aagccaggcc gagctggctg ccatacatag gtactgtgtg gtgtgtg 407

<210> 17558

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A12

<400> 17558

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cccggcgtg gcggagcaga tggagaaggc cgcactgttt gacttcaacc tgacgtccc 120
ggcgatcgcg accgagttcc tgctgctcat ggtggcgctg gacaagctct acttcacgcc 180

gctaggcaag ttcatggatg agcgggacgc caagatccgc ggtgagctcg gcgatgtcaa 240
 gggcgccctcc gaggaggtga agcagctgga ggaccaggcg gcggccatca tgaaggcggc 300
 gcgcgccgag atcgcggcgg cgcttaacaa gatgaagaag gagaccaccg cggagctgga 360
 ggccaagctg gacgatggac gcagccgtg 389

<210> 17559

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A6

<400> 17559

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 tTctTTtcGCC aaagaaggca atcttagtga tttatTTtgcT aaaggggaag ccatatcaac 120
 actTTTtcaat gTcatgggaa tTggagctgg aattggattg gcatctactg tttgttcaac 180
 aactcaaggc aagttaattg caggcccgTt actTTccgca gtgcataTat atggggTcat 240
 ccaagatatg agagcaactc ctgtgaacac actcaaccCa caaagaacag caatgatcgt 300
 gggTgatttt atcaagagtG gaaaggTTtc tagccCGcc gagctaattgT acaaggaaga 360
 cctcctgttt ccaaccgagt tat 383

<210> 17560

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A8

<400> 17560

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 gcgtagccat gtccatgttc aataggatct tcgggaagcc caaagagcag gccaaactcca 120
 atgccttgGC cactctggac aagttaaAtg agactcttga tatgctggcg aagaaacaaa 180
 aggtgctgga caaaaaagca gccgctgagc ttgagagagc caaggagttc tcagaagcta 240
 agaataaaac gagcgggtat ccaatccttg aagacgaaaa aactttatga gcaacaaatt 300
 ggacagcttg gaaatTTtca gttgagaatc catgatcaga tgatcatgtt agaaacagct 360

aaagctacaa cagagactgt tgatgcattg ag

392

<210> 17561

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-A9

<400> 17561

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ccttttgggg gagaaggatg gattgttagt gtggatgatt tagaagatat aattggggga 120
catgtatggt tgggttccat ttgtgtactt ggcggaattt ggcatactt aaccaaacc 180
tttgcacggg ctgcgcgtgc atttgtatgg tctggcgaag ettacttgtc ttatagttta 240
ggtgctttat ctgttttttg ttttatcgct tgttgttttg tctggttcaa tagtacggct 300
tatccaagtg agttttacgg gcccaactgga ccagaagctt ctcaagctca agcatttact 360
tttctagtta gacaccagcg tcttggagct aatgtagggt ctgccca 407

<210> 17562

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B10

<400> 17562

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tcccagccca tcttaacaca aggtctaaaa tcttcagttg tactgttcct aactggtgta 120
ctgtttgcag gaagcagttg aatcaaaagg attgagagat gatacaactt gcattgtcat 180
tgacataata ccaccagaga aacaaaaatg cgctatagaa tctccaaaaa cgccaggaaa 240
aggccttgtc cttctaaaaa atttcttctt aaggaaaacg gcactctggtt cattgtctct 300
cgctgacaag gataattatc ccgagccaga tttcgtggag gaggtctttg aggatggatg 360
cccatccctt tcgaggaggt ttgtgccctt atctcatctt gaatacggat gcataat 417

<210> 17563

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B12

<400> 17563

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attcgctccc gaaccatcg atctgctctc cgcagtcgcg cgatccgtgg atcgatccgt 120
gcgcgggctc ggtcgcggcc gggttccgat ctggtcgcgg cctcgctga ggagatgaac 180
ggcgccgggg gcagccacca ccaccagcag cagaggctcc ggcagcagca gcagcaggcg 240
ctcctgatgc accatgcgct gcagcagcag cagcagcagc agcagtacca gtccggcgctc 300
ctgcgcggcg cggcggcggg ggccatgacc caagtc 336

<210> 17564

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B8

<400> 17564

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catacgggag aaaagcacta caccacgaaa taggaatcaa caagagaaaa actttgttag 120
aaattagccc tttcctgatt ggtatcaggg ttgggaagaa tggttgggat acaaagaac 180
catcaggttt gtactttgga tacccttata accatcaaag gtcgttgaaa tggctaattc 240
ctctaaatag gaggcgttga gaacaaagaa attcttgag ctatcgtttt cctctagcat 300
taatataatt cattggtgtt aagaaaaacc tcttggggga aggttggcaa gagatttctt 360
ggaaaaatta cagccccctt cggtcataa tgagatggga ctaattcgat tttt 414

<210> 17565

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B9

<400> 17565

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cctctcctcc acagccttcg ccggcaaggc agtgaacgtg ccgtcgtctc tcttcggcga 120
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cccgtggtac gggcccgacc gcgtgctcta gctgggcccg ctgtccgggg cgcccccgag 240
ctacctgacg ggcgagttcc cgggcgacta cggctgggaa accgcggggc tgtcgggggg 300
accggggacg ttcgccaaga aaccggagct ggaggtcaac cagtcccgtt gggccatgct 360
ggggccgttg gg 372

<210> 17566

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C10

<400> 17566

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gcgaggcccg cgctcgccgc agccccggcg acagatccga aacttcactc gcttctctca 180
acctcggcag ccgactctgc cgcctcaggc gaggcaaacc gccgagatgt cgccgtgtcg 240
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agcctcgtgg acggtctcgg gagcgcgctg tcgcaggtgg cggagaccct gggccgcccg 360
ctggagcgcc tggcgc 376

<210> 17567

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C11

<400> 17567

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tccttcgggg gctcccggtt cccggccgcc acgcggacca caccggcgct cctcgtggtg 120
gccaccggcc cgcgcggcgc cggcgcgggg cccatctgcg cgtccatgtc catgtcctcc 180
tccaaccgcg cctacgacct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240

tcccgcgaga tgacccgtcg ctacatgacg gacatgatca cctacgccga caccgacgtc 300
gtcatcgtgg ggcgcggctc cgcggggctg tcctgcgcgt acgagctctc caaggacccc 360
gccgtgagca tcgccatcgt g 381

<210> 17568

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C4

<400> 17568

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aggcgtgcga gctggtgagc ggctcggacc tcgtcatcgg cgagggagac gacagcgtca 300
gcgcgtacct tttcaaggcc gtcaagaaca acaatggcac cggcctctc ctgctctccg 360
acatcttcgg cttccaggac tccgccacgc gggacttcgc ctaccgc 407

<210> 17569

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C6

<400> 17569

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caca 64

<210> 17570

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C7

<400> 17570

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 ttataatttt cttatgtgtg tagtttattt gatgcacagg aaatgcaagt taataatgag 120
 gcaccactag ggtgcctcaa gccaaatatt tctcagtata actctccaga gcagataggt 180
 ggtgttgaag ggtttcctga gaataatgaa aaaaggaatg atattgttgc tgcggaaaaa 240
 atctgggagg cgactccaaa ccaaggcctt agcaggccca tctaccgaca agaattttat 300
 gcctggccat atatttatto agattatcaa atcgtgcgtc agccactacc ttaaagtttt 360
 gacaaccaat tttatcataa atagggacca 390

<210> 17571

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C8

<400> 17571

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 atcacactac atatagatag ttgggtactc agtactcgat cgtttacatc tccagcacat 120
 aagttgatga tacaaggatt cagaaaatag aaatataaac atatatacac aaaagaaaca 180
 taagctagat caggcctaaa tatcattctg catgaacgga agcttgcaag gtcttcaca 240
 agtgcgtggt ttcgaattac aagcagacag tacatctgct gctgggcatt gcataatatg 300
 ccggcctgta gcaagtgtga gcgtctctgc agggcttggg gcagctgtat tattagctcc 360
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<210> 17572

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-C9

<400> 17572

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 agtacgtat gcttcagggc attgatgaat cagtgggagc agaattgggg gaacatcatg 120
 aggacgcaca tgaccacgag gagtttgagt tcggtgaagt ttttgttcac caactgattc 180

acacgataga atttgttctg ggtgcagtct caaacaccgc ttcatacctt cgtctttggg 240
 ctctgagtct tgcacactct gagttgtcca ctgtattcta cgagaaagta ctaatgacgg 300
 catatggggtt taacaatggtt ttcaccttta ttattgggtg cgtcatcttc atctttgcca 360
 cgattgggtgt ottgcttgtt atggagaccc tgagtgcatt ccttcacgcg ctgag 415

<210> 17573

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D10

<400> 17573

ggcaacagca gctccggcgg cgacctgttc tccagcggca agctggtggc gggggccgcc 60
 gtgtcgggtgt tccagcagaa gagcgtggag aacgtcgaca agcaggaggt cgccggcgcg 120
 gcggccgagc tctgcacgc ggcgtccgcg tacggtaagc tcgacgacaa gccggccggg 180
 cagtacgtcg agaaggccga ggggtacctg aaggagttca gcgcgggaca cgccaccgag 240
 caggagcagc ctgcggcggc agcaggcgac gacgcggcgc ccaagccacc ggcggccgag 300
 gcgcccgaagg agccggcggc ggtgcctgcg cgggccgcgg aggaaggcag caagtcgtcg 360
 gagggcttcg ggctcggcga cgtcatgaag ggggccgagc aactggtggg aaggaagcag 420
 caaggggggg g 431

<210> 17574

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D4

<400> 17574

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 tctcgtgggtg cctggatgct atgtagttca ttggtactgc tgccgtatga atttcgatga 120
 ttgctctggt gacttggttt gtaatctgga gttggactat cgttggtttct gccgcataaa 180
 tttcgatgat tggtc 195

<210> 17575

<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D6

<400> 17575

accacgcgtc cgcccacgcg tccgaaggct cttgattaca agactcaaca aagcagactc 60
tttccgttgc tggtttcagc atatgcattt agatttgtgg gtgactggct gaagtggcta 120
tacatggatg tcaactcagaa actggaagct aaagactact caaactgca agaagcccat 180
gcctgtactg ctggtttgaa ggctgtgaca acatctgcaa cagctgatgc cattgaagaa 240
tgtagaaagc tctgtggcgg acatgggttac ctgaacagca gtgggcttcc tgaattgttt 300
gctgtctatg ttctgtctg cacttatgaa cgagacaata ttgttctgct tttgcagggt 360
gc 362

<210> 17576
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D9

<400> 17576

accacacgga ttagatcacc gagaaggatt ggtgatgagc ttctaagttc tagaggcggg 60
gcgccacagg gcactgctcg tgaagtgagc gaaatggggg caactcgatt cgcaagcgct 120
gatcgctgat attaccaccg cagttggact catacgtgcg atcttaaadc cgctaaggac 180
tcccttggat accatcactc atcgtgacag gctgcatcag tgtagtcacc tgatccttca 240
attaacagcg cttcgagaga gtaactccaa agggctgtct tatcagacat cagcactg 298

<210> 17577
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E10

<400> 17577

ggacagacat catcgccaag attgtaggcc ggctcgggct tgataaaacc atgtttgaag 60

cttccaactc caacacctcg gagtgggttcg tcagacgtta tggcccaagg gtaaattctct 120
 ttgttgaaca ctctgacgtg atgaatctgg agcgctccg gggcttcaac atgcgcagaa 180
 gcaactcggc ctcccgtttt gctcgcctg tcttacacat ctcaggaagg ggaatgggca 240
 ttagccatt agatcacgaa gatacttcta catgttctca cctcgcaga gcttggtatg 300
 gcctagagat gtaaccgcct ttgttaatgc ctccatgtag cccccagcga gcaacgcat 359

<210> 17578
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E4

<400> 17578

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 ggtccgcata gcgcagaccc tgctgcggca cgggtttgcc gtgcgcgctg gcgtcccgga 180
 cctagcgtcg gcgcaggagc tagcgcggct ggcggcggca taccggctca tctccccgc 240
 ggaagcgcgg cggctaaacg ccgtatagge gggcttctgt gaccccgacg cgataaccaa 300
 gtccatcggc cccgccgca aagtgggtgt caccgtccgc tcggccgaga aagggccaca 360
 agggcgaggc gtcaccaccg acgacgcgt cccagtgggt cggg 404

<210> 17579
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E6

<400> 17579

aggacgcgtg ggcggacgcg tgggcggacg cgtgggaaaa gaaatttggg gaagagattg 60
 atcaagatct tttgtattta atatctgttg accggatctt gcacatggaa gatttcaatg 120
 aggatggcat gtgggtagtt ccatcagact acaccagtgc agaacctgat cctctacgca 180
 attttgctga aaacatcgtg gaggaattta acaacaaaaa tgctgaagac gtccgtagga 240
 tataacaacat atatgtcgaa tcagatttac aggtggcaga cgtgaagatg atatgggttg 300

acaggctagg ttctgatctc cacgctcatt ctgcggaagg cgttttggct gttcgggtcc 360
cttttcctat ggaggtctcc gacgacaagg ggggtgaaatc ctcgttc 407

<210> 17580
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E7

<400> 17580

atgacatccc tgattggtgc tttgtcgaga tttatggaaa agaagggaaa aagtacttct 60
oagagtctcc ttcagtagac gatctttgtc aattccacca gaagtcacca atttcacata 120
ttgcaaaggt caagacacca acactctttc ttcttggagc gcaagatctc agagttcctg 180
tttctaattg cctgcagtat gcaagggtt tgaaggagag ggaatcgaa acgaaaacta 240
ttatcttccc agaagatatc catggaattg acaagcctca gtctgatttc gaaagcttcg 300
tcaacatagg ggtttggttc aagaagcaca tgggcaaata aacattagtg cttcccatta 360
cattcatgat ttactttttc attgttacta aatgcctgta actgggtcaa agta 414

<210> 17581
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-E9

<400> 17581

agtcgctagt cgctcgctcc atcaccgata accaagatcc caagacctcc tccagcctcc 60
tctgctctcg cgccggcacc cgcacgcatg gctgcctgtg tcgacaagtg gcaccccacg 120
cacgccggcc gcctcacccg cgccatctac cgctacttgc cggacggcgc cacggaccgc 180
gcggtggccg ccgccgccgc cgcgccggcg tccgcgagcg gcggcgacga cgacgacgtc 240
tgggacgagc tgcgcgcgga ggcgcaggcc gacgcggacg ccgagcctct gctccgcaag 300
tactacgccg acctcgctct gtgcgcgccg tcgctggagg ccgcctctgc cgcgcacctg 360
tcgggccaac tctgcgtccc cggcgcgctg ccgcagga 398

<210> 17582

<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F10

<400> 17582

accacgcgtc cgcccacgcg tccggaaggg gaacccgaac ccgcggagct actacaagtg 60
caccacggcg ggggtgcccgg tgcggaagca cgtggagcgc ggtccccacg acacgcgcgc 120
cgtgatcacc acgtacgagg gcaagcacia ccacgacgtg cccgtggggc gcggcgccgc 180
cagccgagct gctgctgctg cggcgggcggg ttccggggcc ttgatggcca ccggcgggcg 240
ccagctcggc tatcagcagc agcagcagca gcagccatac accctggaga tgctgagcag 300
cggatcgta c ggcggcgggc gcggcgggta c 331

<210> 17583
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F4

<400> 17583

tgccagttcc cctacaactt cactgggtgc caagacctcg ccaagcagaa gaaagtcccc 60
ttcatcagcg acgacctcca gattgagtgc caagggaacg gagaagttca agtgcggcgc 120
caacgttttc tggaaatggt gaaacagcta gcaacaccgt ctgatgggaa tggatgagat 180
catcacctgt cctgtcgacc ccagatatgt ccaaactgca gggaa 225

<210> 17584
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F6

<400> 17584

ataaaaaaaaa gttagacaaa ccaatgagggc caaagaatga agtttgaaca ttttgttttc 60
ttttttccct aattatacct agtagtgagt acaggagtca ggtctaccag aggtaatagt 120
gaatagcagc aggcacagct gtcattgggca gggctaccat gagcacgcaa tcaggcaggc 180

aaagtgttga agaaaggaaa caagaagcag gccacggacg agctggaccg ccagaagcag 240
 gcggagaaca agccgcgccg acttgagaaa ggccctggcaa actcggctgc cataatctcg 300
 ggggctggac aaggagaagc agcagaaga 329

<210> 17585

<211> 411

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-010-Q1-E1-F7

<400> 17585

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 gaçacgcagt cctgcatgga ccccaçcgtc atggagggca aagtcgtggt cagctcctgc 120
 gggcacgcag gggcccttcgg cgccaccggc gtcaagaggc tccaggacat cggcatgac 180
 agcgccgtgc cggggatgaa ggcgctcgac atgaacaccg ccgaggacga gatcgtgcgc 240
 ctacgcgcg aggtcggttc cgcatgac gtcaccggaa tggaggtcgc cgagattgac 300
 tgcgccccca ggatgggccc gacgtttggc gccatgatga tctccggcca gaacgcngcg 360
 cacctggcgc tcaaggccct gggcaagccc aacgccgtgg accggaccat g 411

<210> 17586

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-F8

<400> 17586

accgtccgct ccaccaacc acctcatccc tctccgccac gggccgcggc cgaccgccgg 60
 ctccgtggcc tcgacaccag ttgacagga gcatctctac tctacagatg cttggtcaat 120
 atccggcggc ggcatatgtc aactctcccc ttatgcatg gaactgcaa ctgcgcgtgc 180
 tggtcggagt gctctggatc gaggtttgct gctgcgcgcc gtgttgggag ggaagctgcc 240
 gtctcctggc gctgggagaa gccggggacc ctctgtttgc tgacggcaag atctccttcc 300
 ttgggcaggc agtccaggaa ggtgcaatgg gctatcagaa gcatgtccga cgacagcggt 360
 gaccagtcac gcaacagcac tcgcctcttc ag 392

<210> 17587
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G3

<400> 17587

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gggcatggta tggccctgga ctggaccagc agcatcagcg actccttgccc cttatttgggt 120
tggactgggt gtacagtttg catttgaaca gtatgcacgg catcggaat caccttcttg 180
ggcagtgatt cctaatatct tcaagtttgt gatctgatca atcgtacctg atatttggga 240
actgggactt gggattggct atcagtgtat caagtacttc tggagtctac tgggagcatt 300
ttgaggaatc atgggcagta actaagactg ggaaatgt 338

<210> 17588
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G4

<400> 17588

cccgaccggg ttccggcgacg gcagtgggca accggcgccc gggcgtgggg ctcaaaccgg 60
cgggtggacgc aatcgtcgcc gggctgcgcg ccgccggctc caaccacgc cggacgctgt 120
tcctggacga cagccagagg aacatcgccg cggggaaagc gctcggcctc cgcaccgccc 180
tggttggcaa gagggcgagg agcaaggaag cggactacgc ggtggagaac atcggcgcg 240
tccggcgggc catcccgag atctggggcg aggcgctga acgctcctcc gacaagctgc 300
cggtgccggc cgtgagcgtg gtgaggtcga cgacgtccga cctggactcc atcatcatcc 360
agcccacgtc catccacgcc taat 384

<210> 17589
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G7

<400> 17589

agttcatgta cttaagctgt caaagaacat tgactacttg agggatcaga tgaattccag 60
ctactatcac aaggacatgc atgacccatg tgtcaactct gtaacactac agcagcaaga 120
cgaagaaatg cctgaagttg ctcccatgag ttcagagcct gaggttgaga agtggacatc 180
agttgagatt gatagagcct tagatttaac aaagtctgga gtccctgtgg aagatatgca 240
gagcaaagtc tgtttcaaca agcttgaaga tgattcttct gcgactgcag gtccatgtct 300
gactgggagt tcaattgcag cttcatccta taatctgac agacatcaaa accaacgtag 360
ctctactgtg acatccagtc ctgatggctg gtacg 395

<210> 17590

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G8

<400> 17590

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ttcgtcatcc ttctctctcc tctgccatcg cgctcgccgc cccaccgcca tccgcgccga 120
agctgaagtg cggcctccgc tacctgtctc cgcgggcgag tcagagcccc ctgacgccgg 180
cgctgtggaa gccgaaggtc agggaccogt ggagctccgc gctccgacgc tcttctcgac 240
tgatgacaat cccacccgc tccagactgc caccagtctc ctctcaccg gcgccatctc 300
ggtcttctc ttccgcgcc tccgccgcg cgcccgccgc gccaaaggag tcagagtgcg 360
gtccagcggg ttgacgaagc ccagcaatct caccg 395

<210> 17591

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G9

<400> 17591

acttcaacaa gcagggttcc agaagaacga caagctgttg cagagggtgc tgatgacgac 60
gaggaagacc tagaagagat cagggcacgg cttgctaaag tgaggtcgta aatcatatac 120

atatctgagt tttctaacct ggggagccca tggctcacaa aatatggtgc caaaacccgt 180
 gtattgtgaa ctgagtcgat agcaatgcaa tttttttttt aattggccct cgagtcgacc 240
 atatatgaag tggcactcta ttgtgtaca acgctacgag agtggcatgg aatatcgga 300
 tatggatagc g 311

<210> 17592

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-B4

<400> 17592

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 ctcaaaatat agaaaaggaa ggtttagttg ccaatcatgg caaagaagat ggcaagttgg 120
 tacctgtaat tgcttcaagg agtcaaaga tagtcgaata agttggctat agaagaatca 180
 ccaatgatgt aggatgtacg agagtaaccc tagaaagtgg tttgagagtt aattcagata 240
 tggactatag aagcagagct ccagaaagcc acgaggtgca gcatcttata catctgtcag 300
 aacctgctgg tttacatggg aaatttatag gagaatcttc aggtgctggg gacaataact 360
 gttctggttc actatgcact gagagtgtg ag 392

<210> 17593

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-B9

<400> 17593

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 cgggtccgac gccgaagcct gccgcccga atccgattgc ggccatcgtt ggtgctcgc 180
 acactcctta cttccagatg atcaacgagg ttatcacggc gctaaagtga atgaccggct 240
 cgaattcgca agcgatctcc acgtaagtgg gggaaaagca ccgtgcgtct cggcctgtta 300
 acttcaagaa catgccttcc aatcagctcc gttgggtccgc agtc 344

<210> 17594
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-011-Q1-E1-C3

<400> 17594
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 gactctgtgg tggatgatgg cgcgcatgcc gcgaccttgg agccggaaga agaatectcc 120
 gaccctttcg gtttagatgg tcttcttgag cacaggccta agaagacgtc tgggagagct 180
 cgagagaagg cagtcgcggc tctgaacaga aagacggctg aggaggaagc aaagaggggt 240
 ctcaagtgcg agcgggaggc ctttctgaaa tgcttgaaa tagccgctcg gcgctacaga 300
 atcccggtga cacagaccgc cattgacatt ttggcgaagc acggtacga cgacgcggcc 360
 cggttcacac ggcggcagcg ggacgcgacg gctaaggcgt tgg 403

<210> 17595
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-011-Q1-E1-C4

<400> 17595
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 gagttgagcg cgatggcgag caccagcgcc aggaacagcg ccgccagcag gatcaccgtg 120
 ttggtgtcga acgtcgcgtc gacgaccccg ggcgccgccc cgcgcgctcc tccgacgccg 180
 ccagtgccgt tcaggggccc cccggcgccc tcggaggagt cccggtggtc cacgtcgcag 240
 cacgtcgtc gcacgaaggc acgcgcattc ctgccgtgct cagtccgcgg cagcaactga 300
 tagctagtcg ccaggcgcgt tccggga 327

<210> 17596
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-011-Q1-E1-C8

<400> 17596

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aaggcccaaa tgggtggatca ctacacccaa atccttatga aagtgttggg gaacgaacat 120
gatgctcagg ttactatata tca'cgtttca tgggataggg attatggttt ctgttgtcat 180
attgatgaag aatgcgcaaa agagttagct gatgttcctg gagtgttata cgttcaaccc 240
gataactaact ttggatcaga caacaaaaat tacaagggtg atgatggcgt gaaatcatct 300
gaagggactg gatcggtcga tatcaaaact aaaagggtct ttgttacaag cctttcattt 360
tagacatctg ataaaaccct accggcagcg tttgagcctt tcggtg 406

<210> 17597

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-F11

<400> 17597

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tcatgaggaa tttgagacct caatgtcaga tgatcttcac acttcagtgg cattggctgc 120
tatttctgag ccattgaaag ttatgaatga tctgttgac actcgtaagg gaaagaagca 180
ggacaaaagg ctggaatctc tttctgcctt agaagagaaa ataacactag ttctctctgt 240
tcgaagattg ctaccttcaa gttatcatga tgctttgcaa cagctgcggg ataaggcact 300
gagacgagct tccatcaccg aggatcttgt ggtgcagaag attgaagata tgactggagc 360
aatgaaggca aagcagtatg acaaatccga ccagatccgg 400

<210> 17598

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-F9

<400> 17598

gccaggagcg acacacgacg ctaaacttag tcctagcagg agacagagag ccgggaaacc 60
cgcgacagcg tgccgtgcta tggactacgg accgtcgagt ccgccatagc gaacgacgga 120

gaaggggatg gccgggatcc ggccgatcat acacgactgg gagccggtgg ttgtgccaaa 180
gactgcagcc accgccgctg ccaacaacga tgacaacgcc gtcaacgccg cgcgccgctc 240
cggcgcgggcc atcgagacca tgaacaagta caacgctggc ccgaacaccg cggcctccat 300
cggcacctcc ctcaacacca agcaccgccg ccatcagaca gagagcttcg cccatcg 357

<210> 17599
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-G3

<400> 17599

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agcagagcag cggcgatggc ggcctccatg atctcctcgt cagctctggc ggtggcgcct 120
cagggcctgc cgccctcgg ccgcgcgcgc tctccttcg ccgtcgtctg ctccaagaag 180
aagatcaaga ccgataagcc ctacgggatt ggggggtggc tgaccgtcga cgtcgacgcc 240
aacgggagag agggcaagg caaggcgctg taccagttcg tcgacaagta cggcccgaac 300
gtcgacggat acagcccaat ctacaacgag gatgagtggc ctcccaccgg ggacgtcgac 360
gtcgggtggg acactgggct tctgatccgg 390

<210> 17600
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-G4

<400> 17600

aaacacgcgt ccggtcaagc ttgcttagct agccgccatg gcctccctcg ccgccgtctc 60
cgtgaagccc gtggccatca agggctctgc cggcagctcc atctccggaa ggaagctcgc 120
cgtcgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg tgggtggccaa 180
gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca ccggacagt 240
ggacctctac ggtcttgacg cgcctcgcct ctacaaccgg ctacagagca agttcttcga 300
gacgttcgag gctccgttca ccaatagagg tctgctgctc aagttcctgc tgctgggcgg 360

cggtcactt ctggcctacg tcagcgcgtc ggcgtctacc ggacttcctg ccga 414

<210> 17601

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-011-Q1-E1-G9

<400> 17601

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aacccttcaa ttgagcttgg acctgagttc aagaagggtg ccaatttcct tgctcggttc 120
aagtccatcc ccagcatagt tgagcttgac agcttgaagg tttctgggtga tgtctggttt 180
ggctctggaa ttacactcaa gggcaatgtg acaattatcg ccaagcctgg agtgaagttg 240
gagattccag atggagacgt acttgagaac aaggatgtca atgggcctga ggatctttaa 300
gcaatgtctg tcatcaccag tttttcccaa ggacatgtca caggaactgc cgagcctaata 360
cactcctact gagctctata tttttgtaat tttcatgtgc attccgattc cgctgcgagg 420
gtcatgtgag ccc 433

<210> 17602

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-A12

<400> 17602

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tgacatcaca gttgttgcg cacaagtga gacagtagtg gtcccatagg acgaggttca 120
gggtggcgac acagaagaac ataaggggaa tgagcagggc gctgcagctg tggttgcata 180
caaatgaat gatgaagaag tcgcttgagt tttgggacca tctcattttt acctttttgt 240
gatgactgta ttatactgca cataaaggaa ttgaagcaaa atacatttgt gtgattgtgt 300
ctaaaaggaa aagaaaagtt ctagatcgcg a 331

<210> 17603

<211> 111

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-B10

<400> 17603

actcacgggt cgacacaagc ctccagagaa acacgtaaca ttcgagattt tggatacaaa 60
tcggaaaaat ccatttatat tgtttttaca tcgacttgca gttctgatgt c 111

<210> 17604
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-B12

<400> 17604

aaactgagtc taaagaagct caaccagtc attcaactga attcacagaa gtgcactgtt 60
caaagccaac tgaatcagca gctgtagatg tcccaaatgg aaacacatcc attaccagca 120
gctttgtgga aaagcttggt ggtattcgtc ctggttctgc aaacctcaat agctcagggg 180
caaatcaatc agcagccaga atacctgatc caattcatag tcatacagat gggcactcag 240
atttttcgtc atcctttgag cacaataaca tgactggcaa acatacttca ataagcgaac 300
ttctagaatt tgaggggagt gctgatactg gcaccaagat atactcaact gacatgagaa 360
ataacgctgt gtctgcatca agcttttcag gcattgcaca aaggtttctt gctaatt 416

<210> 17605
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-D12

<400> 17605

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aaattagaaa acgcaagaat tgaagccaat ttagtaagag ttgttgtaga atcactcagc 120
tcagagcttg atagggagaa agcttcactt gctacattgc agcagactga gggatatggca 180
tgcatacacg ttgcttctcg agaagctgag ctcgacagga cagagcaaga gatagaattg 240
gtacataaga aagaagcaga aactcgggaa atgatggcgg agcttccaag gatgttgagc 300

caagcagccc aggaggcaga cgatgccaaag atggcagctc atttgggaca ggaagaactg 360
 agaaaggcca gggaagaagc tgagcgaact a 391

<210> 17606
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-D9

<400> 17606

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 cagcagttcg gttecgctacc accaacaatcc atgctgggca tgcaattcgg tggcatgcag 120
 cctccgcaga tgtatggcgg atcgcagcca gtcgatgtgt acccgcaaca aatggcagtg 180
 gccagtatg gagcaatgcc gcggcagcag ccgacgtatg gtggtcgatt ggccgggttac 240
 atgcagcatc ctgctgtggc tgccgcacac tactacaaca accaggggat gtatggctac 300
 cccggtgcga acgggctgtc acagagcatg tatggcctct cgggtgcagga caactcgctc 360
 atggggatga ggtcgtctta ccagactacg acggcgccac cctccacggg gcaacctatg 420
 aagccgacga agcccgaaga 440

<210> 17607
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-F9

<400> 17607

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 agggggatgg ccgggatcgg gccgatcaga caggactggg agccgggtgg tgtgcggaag 180
 aaggcaccca ccgccgtgc caagaaggat gagaaggccg tcaacgccgc gcgccgctcc 240
 ggccgaggaga tcgagaccat gaagaactac aacgctggta tgaacaaggc ggcgtccagc 300
 ggcacatccc tcaacaccaa gcgcctcgac gaatgacaca gagaacctcg cccatgagcg 360
 agttcaagtg acctgaagaa acatctcatg caagcaaggc tcgatcatga agttggccca 420

ggcacatctt gctcaga

437

<210> 17608

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-A3

<400> 17608

agagacgctt cttgggtcaaa tttagacctt gatcctggac tattcgcaact tcttggcgcg 60

gaatctttcc tcgggtggaac aatgaggatg actgtgtcag tctgcgtgat acttctggag 120

ctcaccaatg acctccttat gctcccgta gtcattgctg ttcttctgat atcaaagacc 180

atagccgaca gctttaacac atgggtttat gatcagattg tggatgatgaa aggcttgcca 240

ttcttggaa gctcatgcca accatacatg acgcacttgg ttgctagcga tgttgtgtct 300

gggccactga tctccttttc aggcgtccat agagtgggga atatcgttca ggcgttgagg 360

atcacaggcc acaacggatt tcaagtggtc gatgagccac ctctatc 407

<210> 17609

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-A8

<400> 17609

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catgaccgtg gcattccgct ggcttccgtc gaccgcctct cgccggagaa tcttatcctc 120

tccgtccct tcgttcgagg ttcttatctc catccacatg ccacggcggg cgccgcctcg 180

cagtccttc cctcgaaagc cgcgcctctt cgtgcctcc ggcagctcg atttctocag 240

agctgttcaa acagcatgga gggccgtaa cgtatgctgtg gatgcaggaa gtaatcgtgt 300

cgcaggttca gttccacgag caattgccag gatagggtgt gcctttgctg ctgtgtcggt 360

tgcttttttc cgtgtcaaat ccattgtgtc cactgcatta tttgttcttg g 411

<210> 17610

<211> 234

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B3

<400> 17610

gtcgacacaa gcctctacac tgacgtcgtg ttattgcaca tcactagagc gagctgtgtg . 60
tgtgtgtgtt cgtcagttcc tcgatcatgg caaacgcgca tgcgcaagtg gctgtaaggt 120
tcatgatgta tgtggcaccg cagcaggtgg tgtctgtcat gcggctgtgg aacgcgccga 180
cgagcctgag taccatcacc tatgacgaca cggagatgct ggttctgtgc tggt 234

<210> 17611
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B4

<400> 17611

atacatgact ccaacctaac gtgactcgta ttaaaccgcg ggcttctgca ctctgtgtgc 60
cactgcacct gcccatgccg ccctaagccc ttctgacgag ctcatggaag cacagcgcca 120
tgtgcctgtc ccccaggcca agctgcggcg gcggcatccg ccgcggacac caggcgcagc 180
tttcaattag aggcgcagct cctcacgttc acgcgctgg 219

<210> 17612
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C3

<400> 17612

agtcgacatc gtcctcgtga aggacggtct acgtgagatt gtcctcttgt cgagatcctc 60
acgtcccggc cctcaccacg ggtggccacg ggggtgtgaca tgatactagg agatgtaacg 120
gagcaaagaa ttctgagagg agccaaagat gaggataagg gatactgaag atcctcgtcg 180
agctggacaa ggatctcaag tctgctctgt gcgatttggg agacgtcctg gatgttattg 240
aatatcgctg aatcgagaag aaagtcatcg gtggtgacaa aaagttgatc agcactacta 300
tttgcatctg ggcgctgcaa gctattggcg attggatcac ctactggaag cgtagctcgt 360

tcgggcaaaa gctgttgagc tgcgcgcgcc cagaaccagt atcagaagct cag 413

<210> 17613

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C4

<400> 17613

gggtcgacac aagcctctag aggacatcca agcagtccag ataagatttg ctctgggttag 60

gctacctccg cgccgcgctg gaactccctc ccggtgaggt tgttgaaacc gacaaggaac 120

ggggacgtgg ggcccgagga aggtcacgct gctaattttt ttccttcgcy atcgatccct 180

tccgcctccg gattcgccct gctcttggtc ctccgctggt ttcctcgatcg gttggctggt 240

gactctgccc ctgcccctgc ccctgccccg gccccgattc gggggaatct gattcgccgt 300

tgggcgggcy ggagagattg ggttcttggg tctggtgccc gtgcgccccg cgtaatttgg 360

gagcagatag aaacacgaaa ggggagc 387

<210> 17614

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C5

<400> 17614

cggacacgtg ggcggacgcy tgggtttttt tatttatact cttcattgta aattataaga 60

cgctagatat aatgttttaa ttatatacac gatataataa catatactag taaacataat 120

atgtaataa aaagataaaa gtattttaca atttggagtg gaaggagtag cagcagtgca 180

aaagagatgt taaaaatgcc tcttcgtgca gctctatgat ggcctacaac aacatccagc 240

gccaaagtctg gcgcgaaagg cctacgaagc ctgcagccca tagagtcgac gatcccaact 300

catgtgagtg gggagtcac gatccagggt catgtgaatg tgggctgcgc g 351

<210> 17615

<211> 225

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-C8

<400> 17615

gggtcaacac actagtctaa agtcacttat actacgcaat atactgctca caatgcactg 60
catttggggtc agtctctcaa tacggcactg cgtgttcgtg gagacacatc tagcggccta 120
accttattcc cggcgtatgt gctgctgtta ctatcttacc atcttaattc ttatcataca 180
tctccatatt cgacatactc ttgctgaagt tctgtttttc ctatc 225

<210> 17616

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D1

<400> 17616

gcttgtgaca tcgcggcgcg gcgctgtgaa ccacctctct attgaccgtc aactgggtgt 60
ttccccggct gtcttcgcgc gagcacgaa gtgttgaaca cctagaagaa gtgggtgtctg 120
aagaaggagt tcacttcagt gcctgctgat ccagtgggtg agtttcatct aactgcttac 180
cacaatagaa ggattttaga tcttctcctg caataaggaa agaatttgat gacttgggct 240
ttattagttg cttcttgtgg aggtcttgaa gcttaggtta cttatgtgta tattttatgg 300
aaaggtttca cttttccaaa tattgtagtt aagttatgca ctctaaagac tatcaggact 360
tgtaataatt tcaatccctt ttgtgggtgta agacttcagt tctgg 405

<210> 17617

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D2

<400> 17617

gtataactga tcgttgagga gagcagtgat caaagtctca actctgaggc agatgatgtc 60
cttgccagga gtcgtcgac tcgcaatgtg atctttggca actattgtaa gtcgcatcag 120
aacattgcgc tcaattcagt tcatgggtgat ggaattgcgc cgtttcatcc atctgggtac 180
cataatatga tggggtcaca tcatcgcccc aatcaatgaa ttaactggag cagctaggac 240

ttaaataatattt tgcacgtgtt ggaagtcata attcttatgg tacttatgtg tataatattat 300
 tgacagggttt cacctttcca aataccgtaa ttaaattagg cactccacca actatgacga 360
 catgggacac gttcactacc 380

<210> 17618

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D4

<400> 17618

attgattatc gtaaggaggt actcactgag aaggttcctt tccagaactc tgggtcctgca 60
 tccattaata aacattcagt gctccagaat aacggtaaaa cacgagttaa ggatccagag 120
 aaaaagcagc aagcgggaga cgaagaagct cgcaaagaag ctggtaatga aaaatctcat 180
 gaaacaggag cttcatctca gagaagatgt gatcctcctt cgaatcatga cgttgaggct 240
 gaccaggaag gtagtcttac aacttctatc caatctagtg gttctgatga attagaagct 300
 aaaggattgc aagagaagaa ggcagctgta tcaagtaaatt ctagaagagg tattttcaaag 360
 cgggatcaac atatgcctac ttcaccaagg agaagaaat 399

<210> 17619

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-012-Q1-E12-D5

<400> 17619

ctcgttggtc aacacaatcc tctataataa gtctatttac ggcaagcaac cacgggaggga 60
 gctcggagcg tcctcctcct ccgctctata aattcccctc cttttcttcc tocatatata 120
 agggccatca gatccaagaa gagggaagag caccaatgat cttcggcgcc cgttcaggat 180
 ccacatcttc ccgagcgaat tcatggttga cctcttctc cttctgaccg gcggggggggg 240
 gcttggggat ggcggtgan tctcaccaat caaattttca tgtccgatct ctacattcag 300
 atcccaactg ccttcgatcc cttcgatgac gccaatgctt gggactctgg tgcagcacca 360

gggtcaaacg actagcttca aattcgcac c

391

<210> 17620

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-D8

<400> 17620

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cgagacctca ggtcgtgcat ccagtgcacag acat 94

<210> 17621

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E2

<400> 17621

caacaccatt tcagcatcat ttcttgggct tggttcctta gttagtgatc ttcacaggtc 60

cttaattaaa caatatggga cttctttaag tctagaacac aagagggttc ctgcaaatgc 120

ggctagcact caattttctg aagcattggc ccaagcatgg tctgagttta atattgcacag 180

tgctgtaatt atgatgattg ttcagccaga agagagaaat atgtatgatc aatactggct 240

ttccaaacat ttgcaagact cacatggcat aacaactata aggaaaacct tatcgcagggt 300

ggaagcggaa ggccagggtc tcccagatgg aactcttctt gtacgtggcc agaaagttgc 360

tgtaatgtat tttagagctg gctatgcacc aaatgattac 400

<210> 17622

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E3

<400> 17622

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atcgcgattc ggaacgtaat gaagactggg acaggggtag atcatctggg atacgcggca 120

ggtcaaggga ggctgaccac tctaagcgca ggcggatgac acctcagtag tcgtagctgg 180
 gtgagctact aatgtagagg caaacgatga tccagagccg agtcttgctt gcacactggc 240
 atgggtaaca gctagcatct tcttgctgcc tctggctgtg gtggttctaa tatcttggtg 300
 ctccggcaat gtgttgtagc aagaacgaga gatgaatgtc tggttgggac ctgttgagct 360
 gtgcgaagat ggacctccct ggatgatag 389

<210> 17623
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E4

<400> 17623

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 ggcaagggtcc cccagcaagc aactcgcaca ttttgagctc atgaactcgg cgccgacgac 120
 cggcggcgctc aagaatcctc atatgtacat gtccattgcc ctggcgctgc gcgagatgtg 180
 tacgggtatac aatatcacgg agctgcttat tggcatgctg cccttccatc gcctgtttcc 240
 cgagatctct cagcacttca tcacagacct ctggttccat agtcacgcc 289

<210> 17624
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E5

<400> 17624

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 ggagaagccc ggcctcgtca tctcggcaa gcaggcaatt gatgatgact gcaaccaaac 120
 tggacaaatg ttacctggat tgctcaagta ggcacaagga acctttgcct cgaagggttac 180
 attggacaca gaaaaacaaa atgctactgt tgagcgagaa gttgatggtg gaattgaaac 240
 catctgcctt gatctgccag cagtgatcac cacggattta agacttagcc agccaacata 300
 tgcaactttg cccaacataa tcaaggcaaa atccaaagtt actaagaaag tcgccgctga 360
 agaccttggg gtagatatta cattagacat tgaggtgatt gacgtcaatg aatcaccaca 420

ccgaaaatca ggggt

435

<210> 17625

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-E6

<400> 17625

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ctccatgttc ggattcttcg tccaggccat cgtcaccggg aaggggccgc tcgagaaact 120
cgctgaccac attgcggacc ccgtcaacaa caacgcttgg gcctacgcca ccaacttcgt 180
ccccggcaag tgaggggatgc gccgccggtg acctttaggt gtccggatgc atgtgagcgc 240
acgctggttt tcggtttgtg ccatgatgta cactattgtt caatcgacag ggaatacttg 300
tg 302

<210> 17626

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-F3

<400> 17626

gggtcgacac aagcctccat aacgcggcat ctaagctatc cggtgagaca attgagaaaa 60
tgatggaaga tccagctgtg cagaagatgg tgtatcccta cttgcctgaa gagatgcgga 120
acccaaattc atttaagtgg atgctgcaga atccaatgta ccgccaacaa ctacaggata 180
tgctaaataa catgggcgca actcctgatc aatgggataa ccgcatgctt gatcacctta 240
agaacttcga ccttagcagt ccagaagtgc ggcagcagtt tgcgcaagtt ggcatgactc 300
ctgaggaagt agtatcgaat ataatggcaa acccagatgt agctgttgca ttccagaatc 360
caaaaatata gacagccatc atggactgct cgcagaaccc tcttaacatt gtaaaata 418

<210> 17627

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-F5

<400> 17627

cgcgctggtc gtcgcaacac cctacagtga cgctgtatta acgcgtccgc cactgcgtc 60
cgcggaacgcc tgtgttaact tctactccga aggtggttgg ctacatgcc tcatcagagg 120
ccgtctcaat gttcatgttg agtggatgct gcttcaaccg cagtgccgct ggtaacccca 180
agatatctta gcagcgatga ggactacgcg tgatcacgga gagggacgca tccgtgatca 240
ccttagacgt ttccacatta gaagtcgac agtgccgtac cattttgctc aactggctat 300
gactcctgaa 310

<210> 17628

<211> 288

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G1

<400> 17628

ggccagaca cgctctgag gacacgtggg ttctaaatg tgcccatgg gtaggtgac 60
atggcaacta caaatgcctc cacattgacc ttgtattgcc tgccaaggat gctgttttac 120
gagtcgacag tgttggtacc gtatcatcag ctcttttgat cagctattcc attcaaacac 180
ggaagccaga cttatcatt aatgctggca ttactggtgg catcaatgcc aacggggcaa 240
gcattgggga tgtaatcgtg gcatcagatc tttcattcca tgacaaga 288

<210> 17629

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G2

<400> 17629

ctccaacgta aagtgaagca tatcaccgac cacctcgctg accctgtcaa taacaacgcc 60
tgggcctacg ctaccaactt cgtccccgga aagtgatcga gggcatagac atagctgtat 120
ccgtgtagcg tagacatacg tgctcggagt atgtcctgca ggagatgtag cagtatttgt 180
ggtgaacgga ccataggctc agagattg 208

<210> 17630
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G3

<400> 17630

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cgtggctctc aaaggatttg ccaagttctt caaggaatcc agcgacgagg agagggagca 120
cgctgaaaag ctcatggagt accagaacaa acgtggaggc agggtgaggc tccaatcgat 180
tgtgacgcct ttaaccgagt ttgaccaccc tgagaaagga gatgctctgt acgctatgga 240
gctggctctg gccctggaaa agctgggtcaa tgaaaagctg cacaacctgc atgggtgtggc 300
aacaagggtc aatgatcctc agctgacaga cttcatcgag agtgagttcc tcgaggagca 360
ggtggaagcc ataaacaaga tctccaagta tg 392

<210> 17631
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G5

<400> 17631

aatgtgctgg actacattag tggcatgagc aaggggactg atttcgtggg taaagaaagg 60
gaaactttca tggatcttct cgccgcgctg ctggtgagcg aggagtcca aggcatagtg 120
tcatccgaaa caggaagctc gtcaagagaa ggtgagcagg caggcagtgg accagaaggc 180
acagacagcg tcaactgtccc tactagcgct gcggcggtg atacggaggc atccaccgtg 240
ccaaatagct ccacagatac ggctctgggtg tggctggcgg ccataacgag tgtgatgggtg 300
ctgggtgtcct ccaacctcgg tggctcaggc tacttcaacc cgtgaccgtg agtgaacgca 360
acactggctg taacttgtaa cggtgacaac aagaaagttc tc 402

<210> 17632
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G6

<400> 17632

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ccccgcctcg ccatcatcga cgtcagggat gaggagagga gctaccaggc tcacatcgct 120
ggttcgcacc acttcgccag cggcagcttc gaggcgcgga tgccggagct ggtgcggggc 180
gccagcggca aggacaccct cgttttccac tgccgcgtga gccaggtagc aggtccaact 240
tgtgcgcgga tgttctcaga ctatctatcg gggaccaatg atgattcagg ggatgggaac 300
atcatgggta ctggagtcac cggtttaacg gctgggaggt ttcagggcag cctgtcctgc 360
agctgcaccg acgctccatt gcatagggac gtgttctt 398

<210> 17633

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-G8

<400> 17633

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taagcctgca agccttgggt caggggggtg acatgcagct cggcttggct attgatagtc 180
caaaggccac tttagcagtc aaaaggcgct tagcctgtga gatgggtcaa tattggcaac 240
aagttcaaga gagcattcca gagcttccag tctctgatgg atggggaaaa aagcaccggc 300
tatttggtta gtggaagtat gtttaagcca acgctgcagc atactaattc cacggtttga 360
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<210> 17634

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-H3

<400> 17634

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aagagcttca cctacagcag tagtatcaac attgccgtgg cagtggccat agatgggtggg 180
ttgattacac cagttcttca agatgctgat aagcttgaca tttattcatt gtcaaggaaa 240
tggaagaggt tagttgataa ggcgcgagca aagcagttgc agcccatga gtacaactct 300
ggcacgttta ctctctcgaa tcttggtatg tttggagttg ataggtttga tgcaatactg 360
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<210> 17635

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-H4

<400> 17635

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ttaagtcttg ctgccatgat gctgagactt gtgacttccg agagcagtct ttgtgtttga 180
tatccttcct gttgggtctg caaaagtcca gcctttgggt gatgctagtt tcagagagta 240
cagcaattcc ttcacgttg tcacgtcac gtgagttgga tccactactg agggatcctg 300
ttgagaataa actaagcctg aagaggaaat gtactgcagt ggctaccgag ctcagggaat 360
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<210> 17636

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-H5

<400> 17636

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gaatatcgag tccctgctat caacatatga gaacattatt gttaaagtgc aaggagatgc 120
cacagtggat gctgtctttg ctaagatcga cgagctgctg ggttctatcc tggagaagaa 180
aaatgaaatg gtgtccagca catgagcaag gtaaaaatga ttgggtgcag tgcagatccg 240

acaagttcat gtgatgcaag tcacctctca tgatacgaac ttctccaggg gaatatatcg 300
gaagcacaag acgacacgta caagtaatgt aagccactct cagcgaatgg aaatttctcc 360
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<210> 17637

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A1

<400> 17637

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ttaatgctcc aaatgcttat cagacaacgc agcagggata ctgagccgaa ggaagcagct 180
tcttttggaa cccaagtgc gggacttgaa gacgcaggca gcatcatgta gctgctcatg 240
cattgcatgg cacttatcaa gcaaaaacct ctaacatcat cgaccaagtt ggggctgagt 300
agcttggccc ttcacatttc taaattctaa atggttgggt tctgcacggg ggcttggcag 360
gtcgggtgtat ttgaattttg aaatgc 386

<210> 17638

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A11

<400> 17638

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ggcctcgccg ctgcacaacg ccggagacga gacgacggcg gctgcgggat gacggtcttc 120
cacttctca actgcgcctt cctcaccttc ggccctcacg tcgtctacta ctccgccacg 180
cccctgtcag agtatgatac aatcggcact tctataaaag cagctgctgt ttatcttga 240
actgcgcttg taaagcttgt ttgcttggca acattgctca aagtacctga gaatgatagc 300
tttgaccctc atcaggagtt aatgaaagtt tttattggat tcatagatgt agctggactg 360
tattttgctt tgaccagct gaccacaga aacatctctc agaatcataa gttccaggct 420

gttggtc

427

<210> 17639

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A12

<400> 17639

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aacgcccgcc tgcccgcccg ccatggcgac catagccacg atggccctgc tgaagccgcg 180

caggatcgtg gcgcgggtcg cgcgcgcgtc caccagcggc agcgtctcgc tgcgcgtccc 240

ggcgcggggc aagaaggccg cgggtgtccgt gtcggtgtcg tccgcgctgg cgggcgcctt 300

cttctcggcg ctggcgctgt cggacgcggc gctggcggcg cagcgcgtgg cggacgtggc 360

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<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A3

<400> 17640

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gtttaaaggt tcaactcagcc acgttatcaa tgggtgccac attggctcgt accaatcagt 120

ttcaatgtct cgtctactaa gctcagtcaa ggtgtttttc atacctgcgg cacataaact 180

tcatttgttt cgggatctga tcttggtgct agacaccgac ctctaaacgc tgggggctac 240

c 241

<210> 17641

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A4

<400> 17641

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agatcgatcc atogatcgct agctagctga cgaccatggc gtccctctcc tctggcgcca 120
tcaccgcccc ttcttcacg ggcgcgcccg ctgcgcagc ggtcagcaag gggtccttca 180
ccgtgcgtgc ctctctccgc aaggccactg ccaccgccgc cgtggccgtt gccgccagcg 240
tctgcttgcc cgccggcgcc gccatggccc aggaggtgct gctggcgcca ggcgacggcg 300
ggctcgtctt cgagcccagc cagttcacgc tcaaggccgg cgacaccagc agccttcaag 360
aacagcgccg 370

<210> 17642

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A6

<400> 17642

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ctcggcgatg tcaagggcgc ctccgaggag gtgaagcagc tggaggacca ggccggcgcc 180
atcatgaagg cggcgcgccg cgagatcgcg gggcgctta acaagatgaa gaaggagacc 240
accgcgagc tggaggccaa gctggacgag ggacgcagcc gtgtggaggc cgagctcgta 300
gaggcgctcg ccaacctcga ggcgcagaag gaggaggctg tcaaggcgct cgacgcccag 360
atcgctcgc tcagtgatga gatcgtcaag aaggtgctcc catccgctg atgaaaccaa 420
accggccctg ccttat 436

<210> 17643

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A7

<400> 17643

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 tgttcaactc ctcatcgcc tcccaatccc caccctccgc ctctccccgc acctcacagc 180
 gcctccgaaa agccctagtg ctccgcgccc tcgacgcgcg cctctacacc gtggggcgct 240
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<210> 17644

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A8

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 cggtagctct tgcacccgca tatttttttt cccagacca tgctgcacat gcatggatgg 180
 tgagcgagaa gactagatac aatactgtat gagccactcg gtctcaaagt gggccccctgc 240
 ctagctttcc tctgtaaac agagctaata agttctggcg ttctgccctg tatctacttg 300
 ctgttcttaa catttttagtg gccagttaaa acaatcttta tggatccaac tgctgaagga 360
 ttctttgtac ctgtagtcat gtatagttca acaagggg 398

<210> 17645

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-A9

<400> 17645

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 catgtacccc tccgtcttcc ccgtcgccag gggcgggcgc gcgcgcgcgc gctctctcgg 180
 cctcgctccc gcgctcgccg acgactcgtc ctgctccgac ctctcgcgcg cgttcccagt 240

ccccggcggc cacgccgct tctctctccg cgacctgacg ccgcggatcc ccgccgcca 300
aagcctgccg tcgcccgtg ccgtcagcag cgtcttcagc gagttccgcg acccggcgcc 360
gtctcctggg acccctgacg acgctgcggc ggcgcctgac gagcg 405

<210> 17646
<211> 424
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-013-Q1-E1-B1
<400> 17646

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ccccgtcca aagctgacgt tgttgtcaca atgcaagcgc agcgggacgc gccaccggac 180
atgcattgca aggacaaatt ccttgtgcag agcgccatcg tggccaagga gaccatgccg 240
aaggaagtca ctggagacat gtttaccaaa gattcaggca atatagtga tgaagtgaag 300
ttgaaggtag tttatacagc gccatcgctc tctcaaagcg agggatttga ggatggtaat 360
ctcggcagtt tgagttatca agaggaaaca aaagaacca aagaatcagg aaaaataatc 420
tctg 424

<210> 17647
<211> 165
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-013-Q1-E1-B10
<400> 17647

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tgtttggccg tgcaaagcca gaaagtctc ggtttggtg ccgaaaccgc ttgaagcgac 120
caccatctca tgggcctaata ggtccgggtt cggcacaagt agggg 165

<210> 17648
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B2

<400> 17648

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actaactaag gtaaaccTTT tgaggcatgc caaacgcagt gtagcaagag acttccagat 180
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tgataacgag gctgataagg acgcaatggg tccaaacgca ccagttgaat catgtgctga 300
cgatgctcaa aaatcatacg ctgacgaaaa tgcattcatgt gaaaatgggc atgatg 356

<210> 17649

<211> 266

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B4

<400> 17649

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tgaatatTTT accttctgcg tctgggacac aacaacaaca tcgtcgacaa gcaagattat 120
gccttgTTTT gtagtattcc tcatgagtcg ctttgTTTTag gaccaatcta gtagctggtg 180
ttgaacagca gcacattaca gaacatatga tcgtcgagtg accttcatac acgcgtgtaa 240
ctctcgctct ctctctcgct ctcagc 266

<210> 17650

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B7

<400> 17650

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tctacagcca attggccac caacggacac tccccaccac gaccgcatca gatggcacca 120
gatatcggtg gatcatgcat gtaattaact oggttctgct tagctacaag tgattgcagc 180
tatgcaactg tgggaagtat ggcctatTTT atatcttgta tagagaaatt ttgaatggca 240

aatagagcac aaccacgag agtatacttg gaagagggcg gaggttactc tctagtgtaa 300
 attttgcctt tgaaattaa atattttag taattgggca t 341

<210> 17651
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-B9

<400> 17651

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 cctgctccct ggtcgctcg ccatgccggt cggagctcgc tcggtgcag tctccttctc 120
 cctc 124

<210> 17652
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C11

<400> 17652

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 gtccttcgcc gccgtggcgg tggccgcgcc ctgcgcgcgc ggcaccttcg cagtggtca 180
 ggtccgcaa ggtcgaccgc tggcaggagc cgcgcacgct agcagcaacc gaggccaggc 240
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 tctgcggggc cggcgccgc atgggggggc ccaagaacgg gacgcccag 350

<210> 17653
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C12

<400> 17653

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gtccgcggtg gcagcgctgc cgtccgtgag ggtgggcagg aagacgtcgt cgtcgcaggg 180
catccgctgg caacacatcg gctctgccac caacctgata atggtgatca cgaccacgt 240
gatgccgttc gcggggcggt tcgggctggc gccgtccgcg aaccgcaacg ccacggcggg 300
gcctaaacct ggaggcgc 318

<210> 17654
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C2

<400> 17654

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accaataagg ttgttgatgt aggtgcaaag gtggtgagtg acaaagtctc cacccaagca 240
aaccatcaa cctcaagtca tccaagccat gaagaaaatc atcaaaggat gccaacagtg 300
gtagaagatg aacacaaaag cattgacggt gaagtgtctc ttgatcaagt gaattatgac 360
gaggagcaaa tccaaagaca accataagtg cctcatccaa g 401

<210> 17655
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C4

<400> 17655

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atcatgatta ttcgatcgcc aacgtcctga cgacgatgga gtctctctcg tctggggcca 120
tcaactggacc ttcttcaag gtagcgcccg cacgcacact ggacaactgg aggtcattca 180
tcatgagtgt gtctcgacga aaggccactg gtagagcgac cttggac 227

<210> 17656

<211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-C5

 <400> 17656

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 tacggctcgca tacaaccacg gtcttaagct tcgtctgcac caacgcacgc atagatcgat 120
 cgaactcacg ggtcaggctg aacaaaaata -cagtcgtagc taggaataat cgacggatga 180
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 cccaggctga gcccggtgcc ctccgtcgac atccgctcgt ccaccagcgc cagcgcgggc 360
 gacgtggtca ccgcgctggt ggccacggcc agaagctaac aacaagcgcc gttgttgccg 420
 tcccgcc 427

<210> 17657
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-C6

 <400> 17657

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 tctgtttgca tctaagcacg attgaccttg taaaaaaatc ttaatgtggc ctgacgcctg 180
 aaatggtgaa tgttggcaaa ggagccatca gccatgtatt atttgatgtg agttgtgaca 240
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<210> 17658
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-C7

 <400> 17658

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 gccgcgcaag ccgcgtggct caacggcgcc ctggcgcgcg gcgccgcctg gagccacagc 360
 gggagccggg gggcgctcca cgagtacgtc cggcacgcca tgctcagcgt ctacgactga 420
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<210> 17659

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C8

<400> 17659

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 gatgagttct tcaggcacga acaatgcctt gcccatcaaa ggaactacca ctacacgggt 240
 tcctgcagtc ggtcgttcgg cccctgcgaa tccgtcgccg tcaggaggga acaagctccc 300
 agtgcacagg attcctctgt gggtaagtgc ggtggctggc gccgtcatat ttgcagtgcc 360
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<210> 17660

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D10

<400> 17660

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 agtaagctag agaggcttcc aaccgcgaga gaaggcattt ttgtaatgcc gatcgagcgt 120

atcaacatcc tatcaactta ctattatgat attgatctag agagctgtga agcagaaaaa 180
tctattctcc ggaggagact ttctgaatca gcatcagaag ttgagcgatg gagaagaaaa 240
tgctttgcgt aatggcggaa taacgactgc atattccgtt tcctgaggct ggatatggac 300
gacggtgtgg aaatgtgtat gcccggttcc ttatcctatc actgtaatac ttgagtagat 360
gtagatggg t 371

<210> 17661
<211> 207
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D11

<400> 17661

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gctattattg tttcattccc atcgctgtct tcagaattca catcgctgtg gcttgctgt 180
ctggttgctg gccgcgtggt tccctgg 207

<210> 17662
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D4

<400> 17662

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ctttccctat gggatcaaac atccgagcca ggtctgggag atcgcggtact tcctctggtg 180
aagaaaatca ccatgatatc cagacagtct tgaccaacgg tgacacttct tccaatggag 240
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gaccacaaag ggccaaacta taactttttg caaa 334

<210> 17663
<211> 415
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D5

<400> 17663

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acagaagctg ttggtgctgg atttggcggc ggcagcagtg gtaataagat gccaaactctt 180
gacgagtatg gaactaattt aacaggatta gcagaggagg gaaaattaga tcctgttggtt 240
ggaaggcagc cacaaattga gcgtgttgta caaatTTTtac gcagacgaac caagaacaat 300
ccctgcctga ttggagagcc tgctgttgga aaaactgcaa ttgctgaagg acttgctcag 360
cgcatTTTcta caggcgatgt acctgaaaca atagaaggga agaaggTcat aaccc 415

<210> 17664

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D6

<400> 17664

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cggagaacgc gagcaagatc ctcggtgca tcctcctgga ggaacccgac aaccaggata 180
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ccatgctgga cgccatcgtc gcgtgctgct cctcctcgcc ggccttcggc taccactact 300
ggccgccggt gcccaataag gcgcaggcag aggagtacgc gttgcagccg cagcactaca 360
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cgaggt 426

<210> 17665

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D7

<400> 17665

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tggtgggtgt tgaacaataa taagcgaggc cgagctggct gccatacata ggtattgtgt 360
ggtgtgtgtg agagagagag aaacagagtt cttcagtttg ctatctctct ctgcatgttt 420
ggcgtcag 428

<210> 17666

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E1

<400> 17666

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aaaactgtgg cgccagcaca tcctgtgtga accctacact ctccaacttc tgattttcct 240
tttggtagtt ctacatttaa tctgcaacga ggcactcatc tggattttag ccaggcagta 300
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<210> 17667

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E11

<400> 17667

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ggtggcgtct gcggtggtgg cgttcctggt gggctacgtg cgcgcggaact tccagctcat 180
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 tttctacaac cgtaaccgcg tcaagtggct cgacgctgcc gaagccgagc gccacccgcg 300
 gccccaggtc agccccgccc ccgcggcatg gggtaagaag aggtccggga agaacaagta 360
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<210> 17668

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E2

<400> 17668

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 gacgccctca agctccacca catcgtccac tgcctctctg acgtcatcga cgagcgagtg 240
 agcaatccta agaggagtgc acctacattg aatgagacat ttttgggtct tctataccca 300
 actgagaact acaaagtgtg tggctatttg acaaacacaa aggtcacatt tatcatgggc 360
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<210> 17669

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E3

<400> 17669

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 ttcccaccaa accccactcc aaaacgcacc ctcggtctcc cccctctc ttcctctcc 180
 tgggccgcg ccggggaggc cccatcgccg ccttcccaa caccacatct tcatccagca 240
 atgcccctgc ctgcccacc tacgacgtcc gggaggcata ggccgccgtc gcggatctcc 300

tccgcgaggg cggcgccctcc gcggacgacg ccgcctccat cgccgcgcgc gcgccggtct 360

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<223> Clone ID: LIB84-013-Q1-E1-E4

<400> 17670

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ggacgtcgag gcctacctcc ggcaggccgg gctcgacgtt aactccgcc tcgccttctt 180
ccaggaaagg ttgcaacagt aaaaaatact ggagatgaag cttctagcac aacaacgaga 240
ccttcaggca aagattcctg atatagagaa gtgtttggat attgtttcaa cattacaagc 300
taaaaaggat ttgggtgagg cacttataac tgattttgaa ttatccgagg ggatatactc 360
ctgttggaat atcgaggata ct 382

<210> 17671

<211> 146

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E5

<400> 17671

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catgccccac gaaatcgttg ttagatttgg tggggactac agaggtttgg atgggggttaa 120
atcactaaca agtcaaaatc ttcttc 146

<210> 17672

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E6

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gcgttccgct tcctcccgtc cgaggtggcg gagatggagg cgcgctgct gcagctcaac 120
aacggcatcc ccaccgcgc cgtgctgcag accctcgcg ataagttctc cgcttcgccc 180
gagcgcgctg gcaaggtggc catccagccc aagcacgtgt ggaactggtt tcagaacaga 240
cggctactcac accggggcaa aactcccagg gccgcgtcgt caccgccggc taagatgaçg 300
ccctcgggag ctgatcacca gcagcatgcc gctaacgcct ccgccttcag ggctgctcag 360
ctctcttcgg t 371

<210> 17673

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E7

<400> 17673

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ccaagaagaa ccgcaatgag atctgcaagt acctcttcaa ggagggcgtg ctgtatgcc 120
agaaggacta caacctggcg aagcaccac agattgatgt gccaacctc caggtgatca 180
agctcatgca gagcttcaag tccaaggagt atgtcagaga gaccttctcc tggcagtact 240
actactggta cctcaccaac gatggcattg agcacctacg caactacctg aacctccgt 300
ctgagatcgt gctgccacg ctcaagaagt ctgccaggcc actgggccgt ccatttggct 360
ctggccctcc tggtgaccgc ccaacgggcc ctggtcgttt tgaagacaga ccaaggtttg 420

<210> 17674

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-E8

<400> 17674

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tattggctga gctgggactc tctgcaaatt ctagcagcac tgcacaggat gctgagaaga 180
aaggtaccaa ccaaattggt gatgcagaga aaaaggaaga tgctcctgct cctcccgaga 240

gcaaggcctc caagaagaag aaaaagaagg acaagagttc aaaggagggg aaagaaacac 300
aagaagcact tgatgggtca gaggagactg ccagtgcagg acctgatgaa gatacttctg 360
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<210> 17675

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F1

<400> 17675

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cgggtggctag cagaataaga gatgataagc ggcaacctca acaatgaaga gctggggggc 180
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aagagtcccg tgctgtcgag ctcccggcac tggccggcgt cgacggagtc gaggatcgtg 300
cgcgtgtcgc ggggtcttcgg cggcaaggac cggcacagca aggtgaggac ggtcaagggg 360
ctgcgcgc 367

<210> 17676

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F10

<400> 17676

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cggccccagc gtcgtcgtcg tcgcctcctc ccaacttccc gcgtcgtcgc ggagcagcga 180
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cgggtggcagg tggagagcag gcattctcgtc cttccccttc ctgccgccgt tcttcacagg 300
gaagaagggg gagaaggacg ctgagaatgc gatgaggctc 340

<210> 17677

<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F11

<400> 17677

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cgatcagacc atctgggtctg cgatctggaa cagtatctac tttgtggtct tgggtttcct 180
tcggttgga tcaacctacca ctatctacaa cgagctcaag tccacattct ggcccatgct 240
tacgctgga tgggaagtgt ggccttttgc gcacttagtt acatatggtg tgggtcctgt 300
tgagcaaaga cttctatggg tcaactgtgt ggagcttgtc tgggtcacao aactgtccac 360
ttattcaaac gaaa 374

<210> 17678
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F2

<400> 17678

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cgttcatgat gtgccatcca tattaccagt tgttcttaaa agatttcagt catgaaaaca 120
ttgcaagatc atcatatgtg ttactttccc tgatatcttg gtcatggatc catttgtgac 180
taagtctggt gagaagcccc atcttaagggt catgtacgtc gtggctgtac atgtggtcac 240
aaaaaatgta tcattctctg ggactagat atcatatgtc aaaaatacac acggtacaag 300
gttgggaatt gaggagtcaa aggtccatgc agttccagtg aaacatctta tgtcagaagg 360
tgcatagatg cctttc 376

<210> 17679
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F3

<400> 17679

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agccacagat accaacttgg atggcatgct acgtgtgcaa gcaacggatc agtcacccat 180
ggaagcaaac atttattcca agtcgctgta ctaaatacaag tcttcatttc tgaatcaata 240
gggcggcaag ctcccctctc tcagccatgg acgaaaccaa ttccaagct cccaagaagt 300
cccctccgaa gaagaactta gggaaactcc ggcaac 336

<210> 17680

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F4

<400> 17680

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tacatttaag gggcgaaagc aaatcgagaa ccgcagagta gttgagttgg gtggaaagtc 180
cgtaagaag caccgcacac cattaagtgt tgcgaagcca gctctgaaga atcagaagaa 240
acgagaacag aagaaaatgg aagaggaaaa actacttggg atcttttagga agagggacaa 300
ggacaçaaa cctcacaaga caaggccaga ggaccgaatg cttacggcca cagaatggcg 360
ctttaggaac ggtatactga acgtcaagca tcttctggcg ccaccgaaac catc 414

<210> 17681

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F5

<400> 17681

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gtgaagaaga caccatggag atcgatgagg agatggaagg gtctgtggcc gaggactgca 180

acatgtctga tgacgaatat gacgacctgg gcatgcggga cagtttggat aaccgctatt 240
 tatctgatga tggcgttttc tgttctgggt taaccaactc gtcaatcggc aatttctttg 300
 gtggcaa 307

<210> 17682
 <211> 297
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-F6
 <400> 17682

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 tggacacatt aggacctga actcgatcat ccccatgtta tcgattgcac agttgatttg 240
 agtacgatgc cacatgtgca tgataaccta gatgatcaca tgacgacaca tccacat 297

<210> 17683
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-F9
 <400> 17683

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 aaccgccga gtgggtgcacc gtcgcctgg 389

<210> 17684
 <211> 284
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G10

<400> 17684

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ctgatgcttc cgtactgcc aaggttgaag ggcccttaca ggttggtctg ttcgaaggat 180
ggatgcctgg atttaaacct cttccgcacc aagttgtgaa acaagtggat ccacacctgg 240
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<210> 17685

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G11

<400> 17685

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cagacagcac aggggtgagga tccgccgatc tgaccagtta caaggcgcgc gcgagccggg 120
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gcgcacgtcc ccgccatct ccgccaccga ggcgctggac cagcacgccc gcgtctgtcg 360
cggggcctcc agccgcgggc gtcacccccg ggc 393

<210> 17686

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G12

<400> 17686

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gctgctctt cccggagctg ctgccccga acggcgtaa gtteggcgag gccgtgtggt 180
tcaaggccgg ctcccagatc ttcagcgagg gtggactgga ctacctcggg aaccogagcc 240
tcatccacgc gcagagcatc ctgccatct gggcctgcc agtcgtgcc atgggcgcgg 300
t 301

<210> 17687

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G2

<400> 17687

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gtgcgacgt ctctccgcg ggggggagca agtcgctcc gtgctgcagg agatggtcac 360
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<210> 17688

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G3

<400> 17688

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aatactgggc acattggcgc ttcagctaca tgacgcagca caggctaaag agatcctgaa 360

gtcctcgttg aacttagcta agaccctaatt ttatatcca acccaaattct gg 412

<210> 17689

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G4

<400> 17689

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cgacactgtt gctgagatta ttgcaagatt gaagagggat ctaattccca ccatcaaaag 180

cgggcttcta tactggccaa cttgtgattt cattactttc aagtttggtc cagttcattt 240

acagccgcta gtgagcaatt cattctcatt tctgtggacc atctacataa catatatggc 300

cagcttaaag aaatcagatg tggacgtgga cccagttacc taagtgttgt cgagtgactc 360

aacatggct 369

<210> 17690

<211> 270

<212> DNA

<213> Zea mays

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gacgacaatg acattgcatt cgcgttttcc tttgaccaca cgagatacta ggctaggaga 240

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<223> Clone ID: LIB84-013-Q1-E1-G6

<400> 17691

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actatttttc atttttaata ttggtgttac gat 93

<210> 17692

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G7

<400> 17692

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<210> 17693

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-G8

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<210> 17694

<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H1

<400> 17694

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cgagtgggtca agaagagcat caatccggaa tggaacgaaa aactcacct ctctattgaa 300
gacctgccc ttctattag actggaagta ttgacaagg acactttcgt tgatgatgca 360
atgggtaacg cggagctgga catccgccc ttagt 395

<210> 17695
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H10

<400> 17695

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cagcattcac cgggtgcaggt gctgaagaac ttctcccatg ttcgcaatct tcaggtagag 120
ctcccctccg gagatgttgc agtcgaggag ggggttctgc tgaagtggcg ggctgaatat 180
ggcagcacac ttcagagctg cgtgatcctg ggtggaacct tggttgatcg caaggccgct 240
ggcagtgggc atgagccatc accgggtgac aagggaagca tgccagaatc tttctatacc 300
aatggtgggc tgaaactccg tgtcgtatgg act 333

<210> 17696
<211> 242
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H11

<400> 17696

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 ctggccgccc ccccgccgcg cagcgcccag ctgctcgtct gcaaggtccg gaagcaggaa 180
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 ac 242

<210> 17697
 <211> 393
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-H3
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 agtatctaac ggtgttactt ctgagctgtg ggcagagaag gtctttggca tgtatacaag 180
 ttgggcacgg aagcaacgtt acaaggttgg attgattgag aagatatttt caactagtgg 240
 ccatatccaa tctgcaacaa tggagattga atcagagtac atgttcggca ccctttctgg 300
 agaaaaagg atgcatcaaa tgatatactc ctccattgaa aattccgaca ttgatcacgc 360
 attatcagct agagtcgaca aaattcccct gtt 393

<210> 17698
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-H4
 <400> 17698

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 gccggcccgc actacagacg cgtcaggaag cggccgtggg gccggtacgc cgcgagatc 180
 cgcgacccgg ccaagaagag ccgctgtgtg ctcggcacgt tcgacacgcc cgaggacgcc 240
 gcgcggggcct acgacgcgc cgcgcgcgag taccggggcg ccaacgcaa gaccaacttc 300

tccttccctt cgtgectgcc gctcgccgcc gcggacgtgg ccggcggctg ccgggacggg 360
aacagcagca 370

<210> 17699
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H5

<400> 17699

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cctggcttgc ttgcgcgcct gcctccgcac cggcgctccc tctcgctctc ttccggatct 120
atcccgcctc caccgcccgt gattgaggct tccataaagt ttgggcctt 169

<210> 17700
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H6

<400> 17700

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tcgtcgtccg ccttcggcga ggcccgcgtg acgatgcgca agacggcggg gaaggccaag 180
ccggcggcgg cgtccgggag cccgtggtac ggccccgacc gcgtgctgta cctgggcccc 240
ctgtccggcg agccgccgag ctacctgacg ggcgagttcc cgggcgacta cggctgggac 300
accgccgggc tgttagcgga cgcggagaag ttcgcccaaga accgggg 347

<210> 17701
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H7

<400> 17701

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ggcggaccgc gagacgttcg ccaagaaccg ggagctggac gtgatccact cccgctgggc 120
catgctgggc gcgctcggct gcgtcttccc cgagctgctc gcccgcaacg gcgtcaagtt 180
cggcgaggcc gtgtggttca aggccggctc ccagatcttc agcgagggcg ggctggacta 240
cctcggaac ccgagcctca tccacgcgca tagcatcctt gctatctggg cctgccaggt 300
cgtgctcatg ggcgcggtt agggctatcg catcgccggc ggcccgtcc ggtgatgtcg 360
tcgactccgc tctaacc 377

<210> 17702
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-H9

<400> 17702

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gttaataggt ttccgtcttg tatacatttg gcaagcagag aacatatcac gagagtttgc 180
ggcatactat actatggcat ggaacatgcg ttatctgttt gaggatgaat tttgactctg 240
caggacaaga agagcacaag tgcttactta attgttattg aatctctgtg gtattttttt 300
agcatacatt gcattttcat ttattttttg tcaactgtac tgtaatactg tcgtcggtat 360
gtactgtaat attgtcgccg gtaccgggcg tgaaggatg tcacaccgcg gttttggggc 420
a 421

<210> 17703
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A1

<400> 17703

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ggtggtgaag ttgcacctta gcaagacgat tcagtccgag aagttcgaag ataggcgtac 120
ctggggcatc ttcggtgaag gtcggaacgc ggtttcgatt ttggtggcca ttaacaatgt 180

atccacattc attcatggcc gtaatttaga ttggcgatgt gtggatacat ttgatgagca 240
 atacatgaaa gataagatcc gtagtttgat cacagatagg cagcgactat cacagataca 300
 caatgaagta caaagtattc ctggagatga catgaaagca ttttttgatg tgattaatag 360
 cattcgca 368

<210> 17704

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A11

<400> 17704

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 aattttaata attgtaggcc tgagcgacac gtcaagacaa gtttggagac ctggacatag 120
 aatgcatttt gagagacgag ttcacacggt taaggacgtc cgaatgatca acaaacctga 180
 caatctcaga taggccactg gaatcgggtg aaatcctttg aactaagccc tcgtatgtag 240
 ctgtcgtgta tccacacgag ctccaccatga gcaagctata caacatgcaa catcacgttt 300
 accaaacaat acttcacgaa actagttggt gca 333

<210> 17705

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A12

<400> 17705

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 ccttgatatct cctgaatgag ttccaaagcc agaggtctta gacatcgtgt ataacgacac 180
 attatgtttt caccgtgcta ttgaacatca tgatggcatc atgcatcaaa caggaatgta 240
 agccccagac agtgttcac aaaggagatc atccagatta tcaaatactt gttgcatctg 300
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 tacgcatcgg ggaatgccctt aaaatgggtg aacgttaact 400

<210> 17706
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A2

<400> 17706

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tgcacacctg ctttcagcca ccaagtttgt ttactctaa agctgaatgc caacctcttg 120
cctgtggtga ccagacccaa ccgtttttca cctccccgtg gacaagggtt cccacaagta 180
ttettggtcg tgtactactt gttccatgcg cggcaaagaa ctctaccaa caaggagtga 240
agattcaagc tgaagtgggtg actgaagatg aatctactcc agtggctgct gatcaagtgt 300
cggagccatc taactggggt ttaatacatg gatcgagtag ctcttcactg g 351

<210> 17707
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A5

<400> 17707

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acgcgcttct cctcgggtcg ccgcggggcc cgccttcggg ccgcgctccg cctctcgctc 180
gctcatctcc ggtcggcccg atgccgcgcg gcgccaggtc gctcgcctcg cctcgcgcg 240
cgcgttcggt gggcgctgc tgccacgttc attgggcaag gccagttccc cgcggaggtg 300
atggagtcgg agctgcccg gctcgtggac ttcgtctccg actggtgccg gcc 353

<210> 17708
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A6

<400> 17708

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 tagatgaggg aaaatatgaa gagcagtttg aacgatcgga tggatttcag cagcaattaa 180
 taattaaagt acgtgaaatt ttgaccgaca aagaatggcg taggagaaaa atgcaaatga 240
 ggatatcaga ggaagaagga agacttaaga aggatgagga ggaacaaaa gagatgtgga 300
 agaggaagag agagcatgaa gagaagtggg aggagaccag agacaagcgg gtctccagct 360
 ggagggattt catgaagaca ggaaagaaag gacggaaaag tgaaatcaaa tcccc 415

<210> 17709

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A9

<400> 17709

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 tttcaaagac gccatggaga aaaatatcat tccacaggta ccattgttta acatactgaa 180
 gaagttcgat ggtgagacag ttacagaggt tgtccgacct tccattgccc caatgaggta 240
 ccgactcact aactgccga agtatctgat cttcatatg cgaagggtta ccaaaaataa 300
 cttttttgtc gagaaaaacc ctactcgagt taattttcct gtgaagaact tggagttgaa 360
 ggactacatt ccattaccta agccgacaga gaatcataaa ctacgttcaa agtatga 417

<210> 17710

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B1

<400> 17710

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 gctgggtggc ggcccccgcg tcgccccgcc cgccggcgtc caaggccgcc gtccatgcc 120
 tgcccattgt ctcggtcgcc gccactgtcg gcgcagtgcg ccgtctgcac ggaggccttc 180

cagctgggcg tcctaggcca gcgaaatgcc ctgcgcacac atctaata

227

<210> 17711

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B10

<400> 17711

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gagcccgagg aggaggagga gggaagatct cgctcgatcc aaggaggtga gtacaagatg 120

gtgagctcct cgctgccggt ggtcaacgtg taccgctcg ccaactacac gttcggcacc 180

aaggagccca agatggagaa ggacacctcc gtcgccgacc gcctcgcccg tatgaaggtc 240

aactacatga aagaaggaat gcgtacaagt gttgaagcaa tcctattggt gcaagagcac 300

aaccatcctc acatactgct cctgcaaata ggtaatacat tctgcaaact tcttggtgga 360

cggttgaagc ctggagaaaa tgaaatcgag ggttttgaaa agaaattatg 410

<210> 17712

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B11

<400> 17712

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cgtgtcgagc ccttgcaagc acttcaaaat tctgggcaag aggtctgtgt gaacatagac 120

aaagaaaggg aaaagcgaag agtctctgag aactggaggg ggaagaagca cgaagaaaag 180

aaacgtacac gagagcagaa gcgaaaggac aagagaaaag ctaaagagat ggcttgatga 240

cacatgggat agctaggggg cttcaagggg ttacggaag ctctttaagc tcgctgcaat 300

cctttcagaa aggaacggaa tgcattcatc aatgtttttg ctgtaataca atgcgtgcgc 360

taagttagcg cttgccttta 380

<210> 17713

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B12

<400> 17713

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ccgattcacg aatccgccga caccgtaaag acggcgctgt cccgagcgct ggtgtactac 120
caccctttcg ccggtcgcat cgctgccgga gccgacgcc acgccgacgg cggcaagctc 180
cacatctggt gcaaccgcga gggcgccaca ttcgtgtctg cgcacgcaag ctgcgggggtg 240
caggaagtca tagggctgga tcgctcgga gcaccgacga cctt 284

<210> 17714

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B2

<400> 17714

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tgtgtggggt gcaggattgg gtccgatcag tggagaattc atcatgatga catgttgcca 180
ggagatggag gcaggtcagt cttctgtcag atccggcggt tcattgactt tgtcgattgg 240
acatggattg gtggtttcag gctcaaagt ctccgggtgt ggtaccatca gaaccttcga 300
ttgagtctta ctttaagggc agacaagaaa gggtccttg 339

<210> 17715

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B3

<400> 17715

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aaaccctagg tcgcgcgacc cgggcagcgc gcttctgcgt gactgcgtgt ctttcgggga 120
ggggacagcg ttaggacgcy acgaggttag cgaggccgctc tggccgacta taagcggaag 180

aatctcctcc gaagccttcc tagagctgtg aagagcgcggt ggatctcctg gatttgcata 240
 ctcgagggga gctgagacaa ggatcatggca gaagtgtcgg tgtgatgtgt gcgcttcttt 300
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<210> 17716

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B4

<400> 17716

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 gccgcgcccc ctgcgcagct ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
 aaggccactg ccaccgcccc cgtggccgtt gccgccagcg tcttgcttgc cggggggcggc 240
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 cagttcaccg tcaaggccgg cgacaccatc accttcaaga acaacgccgg gttcccgcac 360
 aacgtcgtgt tccacgaaga cgaggtgccg agcgggtgtcg aggcctccaa gatctcgca 419

<210> 17717

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B5

<400> 17717

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 agagggtagt caatcatgtc agttctagca gccctcgca aaagttgtct atgcttctct 300
 ccatgctgtc aactaagga tgtcaaatgt atcctcgctt gatgaaaacc gaagaaggct 360
 cttccttctt ccctaagtga atcgtgactt aggtatacca ctgggctacg gggctgtg 418

<210> 17718
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B6

<400> 17718

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tgctgcacgc cgcctcatctc cctgggcgtc gtcgtgctca tgtactgggc catcttccag 180
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agcctctaca agcccagcaa gcgcgtcggc atctactacg acaccctgga cgccgcgctc 360
cggtagccgc gcgcgtgct gagcccgcc gccagcggg cgtcgccgc cgagtt 416

<210> 17719
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B7

<400> 17719

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acaagagagg ggtaaagttc agttatacaa gacttcttca tctagtttct ttaagtacaa 120
cagaccactt ccattccttc ctctacacc aaaagccatg tttccacgt acgacgactg 180
cccaactcgc cagcagcgat gtgcaagcac aggtgcagca gctagtagta gccgatgtcc 240
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aaccctctgg ggaggaggcg ggtggcgagc tcgacgtcga tgatgatctc cctcatggcg 360
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<210> 17720
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B8

<400> 17720

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tgtgctgcag ccggttcggg tactgcggga cgggcgagga ctactgcggc gccgggtgcc 180
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cggccttctt cgacgcgtc ctgcgcagg ccgccgctc gtgcgaggcc aacggcttct 300
acaccgcga cgccttcctc gccgcgcgc gctactacc gcggttcggc cgcaccggca 360
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<210> 17721

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-B9

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ttggattgag gtgtattgaa gtggatggat gaggattttg attagtagtg gatttattcc 180
ctcttaaaaa aaaaaagggg gagtaactaa gagaatgtgc ctcaaaaaa aagggggggc 240
cgcccta 247

<210> 17722

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C1

<400> 17722

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tgtgggacgc acgcacatgt ggaggatatc cattgtatca tcacaacata atatggtacc 180

ctccgatcat acagcgggtgt ccagttctga gggca

215

<210> 17723

<211> 417

<212> DNA

<213> Zea mays

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gacggcaacg gcgagctggc gcgcgccatg ggcgtcgagc tcgacctctc cgacaagccc 180

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gtgatcaacc tcgaggaggg cggcgcgttc accaacagca gcgccgagga catgctcaac 300

gcgctctgaa ctgcgcagcg catggttggt tcgtctcttc cggcaagagt tggtttcttt 360

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<210> 17724

<211> 407

<212> DNA

<213> Zea mays

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<400> 17724

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ttatggcca tcattcttcc ttctgattct gaaaggattg ttatctctga aacgcgaaat 180

atgaatgagg ttgttcatac ccaagctaag acaattggtg atcatgatgt gatgtacaag 240

tacttgtcaa agaatttagt ttttgttgct actttgtctc cttaaagctgc tggatgatatt 300

ggatctgtgc taactgaaga agcttcactt gttgcatatc ttatgatgc agtcactgga 360

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<210> 17725

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C3

<400> 17725

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<210> 17726

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C4

<400> 17726

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ggccccggcg cggcgtcacg tacgtggagg gcatgaacgc ctacagcggc ctcaaggggc 180

tcaacaaggt gaccatgctc ggggtgcgca agaccgccga ctactccttc gccaaaggtcg 240

tggcgctcgt cagcctcgcg ggcacgaagc ggagcggcgg agcgttcggc gccacatga 300

gtgacgacgg ttgcacgaca tgagcgagcg cagcgaaacc agcacaaccg ccggtggaca 360

agcgtcccca tagaacggat cccaggcgga accccga 397

<210> 17727

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C5

<400> 17727

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ccgccccggc ttctccacca gttcacgcg gggcagccgg gtgtcggcga ggaacccctt 120

gatgagcagg aacctggaga ggaatggcag gatcacctgc atgacgtttc cccgggactg 180

gctgcggagg gacctgagcg tcatacggctt cgggctcatc ggctggatgg ggccgtccag 240

cgccccggcc atcaacggca acagcctcac ggggctcttc ttctccagca tcggccagga 300

gctggccacac ttccccacgc ccccgcccggt cacctcccag ttctggctgt ggctagtgc 360
 gtggcacctg ggccgtgttca tcgtgctcac cttcgccag atcggattca agggcaggac 420
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<210> 17728

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C6

<400> 17728

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 atgagcagtc agaggaagac gcagacgacg gaccaccgga gctgctgttc gttcatggag 180
 gccacacaga caagatatca gagctgtcgt ggaatcctag cgagaaatgg gccattgcca 240
 gcgtgtctga agacaacatc ctgcagatat gggagatggc agagagcata tactgtgatg 300
 acctctccat gcaggttaac tgactcgtgc ctcgaagcat aaaggtgagt tacctgacca 360
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<210> 17729

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C8

<400> 17729

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<210> 17730

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-C9

<400> 17730

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 cgagtgactt tgactaggtg gtcaaagaaa aatgtaacac ggtcgtctaa caagaattca 180
 acaaacataa tagagtggag cgaaaagaca gtggaatcaa aatcttcgtc ctggggcttt 240
 gccaaagcga agtgcatttc taagattgat agagaggaca cagaaattac tgcattgggag 300
 aatattgaaa aagcaaaagc tgaatgcagca attcagaagt tagtgattaa gttagagaag 360
 aaaaggtcat cttcgtttga taagattttg aacaccctca aat 403

<210> 17731

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D10

<400> 17731

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 tgcaatgggtt ggaagataat gtcgtctcaa tcagagatgc tgccgccatc aacttgcac 180
 gccttgcgga agaattcggc ccaaagtggg caatgcatca tagaattcct caggtgctga 240
 ggaagatcag cagtccgtac tatttgtaac gcatgacgat tctgcaggct atctccttgc 300
 tatctcccgt catgggttgc agagattact tgtcaaaaac tgcttccagt tatcattaat 360
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<210> 17732

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D12

<400> 17732

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 ccctcgcgcc tgctgaagat atgggccaca tggcaaatcc aacacgctga tcctccttcg 180

ttcggcttgt gtccctcccc cctgagcacc cagcatgcgg atcaaggtta cggg 234

<210> 17733

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-014-Q1-E1-D3

<400> 17733

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tctattatctt ctttctacgc tatecttaat aggggggttg ttacatctac aacccaaatg 120
gaagccaagc ctttcgtggt tcaaaaacgc cgaatctcgt ctgaatcatc atttgtcagg 180
acttttcgga gtaagttctt tggtctggac aggacattta gttcatgttg ctattcccgg 240
atccaggggg gagtacgttc gatggaataa tttccttaaa tgtattaccc tatccccagg 300
gggttgggtc cccttctgac gggtcagtgg aatctttatg cccaaaatcc tgattccagt 360
aatcaattat ttggtaccac tcaaggagcg ggaactgcc a ttctaaccct tcttggggga 420
ttcaatcca 429

<210> 17734

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D5

<400> 17734

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ttcggttgcg aggtcgaatt ctggctctgc ctctgtctca ccttctctgc ctatctcccc 180
gggatcatct acgcgatata cgttatcacc aaggactagc cagctagcgc cgtaaaccgg 240
gacaaggtga gagagctagc tgatcagcca gcggagtaat ggagatgaac tgctgagatc 300
acttgccctg ctgctcaatg tttctgaatg taaagttcgt agcacgtacg tacgaagtgt 360
gttttggtat gagactgaat ctgagctgtg ctgtgctgtg atgctgctat ataacttgtg 420

<210> 17735
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D6

<400> 17735

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aagcacagcg ggaagccccg cctgacatgc agtgcaagga taagttccta gtccaaagcg 120
tcgttgcccc tgctggtata actgtgaagg atgtcacfgg ggatatgttt acgaaggagt 180
ctgggtataa gatggaagag gtcaaattgc gagtgacctg tgttgctcct ccacagccac 240
cctctccagt tccagaggaa tctgaagaag gttctccacc taaggcttct gaatcagaaa 300
acggagatgg accttctgga ggattcacca aagcactaag agagcgcatt gagcctcaag 360
acaaatctac agaggctgga gctttgggtt ccaagttgac tgaaaagaag 410
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<210> 17736
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D7

<400> 17736

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cctacgggat caacgccgtg tgcactcacc tcggctgcgt cgtgccgtgg aacggcgctg 180
agaacaagtt catctgcccc tgccacggat ccagtagcaa caaccagggc aaggtgggtcc 240
gtggaccggc gcctctgtcg ctggccctgg ttcacgccga cgtcgacgac ggcaagggtcc 300
tcttcgtccc gtgggtggag accgacttca ggaccggcga ggacccatgg tggaaggcat 360
gaggatgatc cggaaccagc ggtgctcagt gtcacacat gagacctatg tatgcct 417
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<210> 17737
 <211> 235
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D8

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gaaggcggcc aatgttacct tgacagtata tgagttcaat cagcagaatg tgccaaattt 120
gcaatcggat cctgagaata ttgatggaga gaagcagttt ctgaaccagt ctgcgagaga 180
agcctacagt atactaggtt ttggcataga agtcacactc ataagacaga cattt 235

<210> 17738

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E1

<400> 17738

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aagaaattcg ctactcctt ccatcaaaag ctctccagt gaaagttcta caacagatga 180
agagcattat aatgttttct caaagtttat ttgacatct gatgtggagt tgtctgttcg 240
agatgcaaaa ttggatccta gtaattgggt gcaaattggct gacttaggcc ttgttgatgg 300
acttgaggaa acttccattt gtgtctgctg ctttggagca actgggagag aagacgaaat 360
attggattga ttacagaaat tatgggggta gt 392

<210> 17739

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E10

<400> 17739

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cgctgggcaa gccagtgaac gggcttggcc tggggatggg gcgggagcgc gcaagccagc 180
ggagcatcac gtgccaggcg gcgagcagca tcccgcgca ccgcgtcacc gacatggaga 240
agcggaagct gatgaacctc ctctcctag ggcccatatc gctgccacg gtcggcatgg 300

tcgtccccta ccgggccttc ttcgtccccg cc

332

<210> 17740

<211> 203

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E11

<400> 17740

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agtgtcatgg caggttgact gaatctgtta cctatatitt cgcggttcat gtctttaaaa 120
tgacagatca tgttgtctac gtgcttacgt gaagttccga ctcaattcca ctaaattcaa 180
ctggcacagt ccccgatttt ttg 203

<210> 17741

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E12

<400> 17741

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aggaccagct gaaaaagatt ttacatgaca ctgatcttga aagcattgaa cagtgtctata 120
tggagatgaa cacagtagag ttcaaccttg agcaagctct gaatacgggt ctgatgcaag 180
gcattccttt gggcaaggaa aaacggattt caattgaacg taattggcct gtggaagtat 240
catgcatgta cctttacggg gacaatttaa ggcttcagca ggtcctagca gactatctag 300
catgcgcctt tcaattcaca caaactgctg aaggacctat cgtgctccag gtcaagtcga 360
agaaggaaaa aattggatct ggcattgcaga ttgc 394

<210> 17742

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E2

<400> 17742

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 agggcggttct gcccagcaag cgcgccgcca atagggccaa aacgggcgcc gtcgtcaagg 120
 cgtccgccta ggcgcaagcg caagcggggc gccgcgccgt gtcgggctg g 171

<210> 17743
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E3

<400> 17743

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 gtatgctcgt attattcaga aacttgggtt tccagctaaa ttcaaggact ttaagattca 180
 gaatattgtt ggctcttgat atgtagagtt tccaattagg cttgagggcc ttgcctattc 240
 tcatggtgcc ttctcaagtt acgaaccaga actctttcct gggcttatct atcggatgaa 300
 acaaccaaag attgttcttt taatttttgt ttcaggcaag attgttttga ctggagcaaa 360
 agtgagagag gagacctaca ctgccttcga aaacatctat cctgt 405

<210> 17744
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E4

<400> 17744

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 ggcattggagc acgcctcgtg ttacgtgctc gacacctgcc gcatgcgctc gtcggccggg 180
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 ctccgcaacg cctgggtcaa acgcctcacc ggtcgccgat agccgcccgc cgtggcctcc 300
 gctaccactg aactgacagt attatatgcc ccaaggacca aacgcaatga tgatgggtcc 360
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<210> 17745

<211> 149

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E6

<400> 17745

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ttaatttggt gttcctaaaa tgtatgatac atagactgca tttcagttgg gacatataac 120

accaaagcaa ttacaatgaa gtgtctgtt 149

<210> 17746

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E7

<400> 17746

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gttgcgatat ctggtcgagt acaaaatgtg acggatgagc tataacattt actggatgat 120

gaaatggata tggctgaaat gtacttgaca gagaagctta ctcaacaaga aattagtgac 180

gcttcatcta tagctgaggt tgatgatcca tctcacacag aagaggatag ggatgaagat 240

tatagaagtg agccataatg gaagcaatga tagctttatt gggtataagc ctaat 295

<210> 17747

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E8

<400> 17747

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cttccctcc cctcccgta agtctgtcac ggagcagcgg gcaacggcgg ccggcaggca 120

atgcaatgaa gaaatgctcg gcgttggcct cggcgctccga ctgatggtag ctgttgcccc 180

tgcgcctcca gttccagccc caccaggcaa accgcctctt cctctctgct cctctctccg 240

ccaacgctcc tccggtctgt ggttctccaa cggcgacgcc catggaagag acagcaccac 300
cgccaccacg agcatcaggg cgacgatgcg gaagtgggtg tccgaccccg acggcagcca 360
agaagactac ggttcctcgt ctctagagga cgacgactac cgttacggtt accacta 417

<210> 17748

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-E9

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cggcgggggt gagggcgtag caccgagcggg tgggtggacca ctacaacaac ccgcggaacg 180
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gcggggacgt catgaagctg cagatccgcy tgcacgaaaa ctccggcaag atcgctcgacg 300
cctgcttcaa gacttttggc tgcagctccg ccataacgtc ctcgctccgtc gctactgaat 360
gggtgaacgg aaaaccaatg gatgaagttt tgacaatcaa gaa 403

<210> 17749

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F11

<400> 17749

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gttcagtgtg cgcaacatcg ggaagactct cgtatccagg acacagggtc ccaggattgc 180
ttctgagggt ctgaagcaca gagtctttga ggtttgccta gctgatcttc agggcgacga 240
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cacaaacttt tggggatatga attttaccac tgataaattg aggtccctaa tgaagaagtg 360
gcagacatta atcgaagccc atgttgatgt caagacaacc gacaactaca tggt 414

<210> 17750
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F2

<400> 17750

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 gggctttgcg ctatcgctct acagcaacga agtgagcacc atcgagccgt tcctgatcga 180
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 tgcgcaagcg catacgcata cacatacaca cacacatggt gctgccgtga acatacacat 360
 gttacactgt aaagtt 376

<210> 17751
 <211> 183
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F3

<400> 17751

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 agggctgggc cttctactgg ggcacctccg attgggtccgc gcaccaatta accgaggcct 180
 ggg 183

<210> 17752
 <211> 190
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F4

<400> 17752

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atggcgctcct tcgcccccggt ggcggtcggc gcgcctcgc gctgcagcac cttctccgtg 180
gtcatgtccg 190

<210> 17753
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F5

<400> 17753

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tttattacag tcctgattga ttgc 84

<210> 17754
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F6

<400> 17754

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ggcggcatcg gtggcgctga gcagcgggca ccggatgccg gcgggtggggc tgggcgtgtg 120
gcggatggag aatgcggaca tccgcggcct catccacaca gcgctccgcg tcggctaccg 180
ccacctggac tgcgccgtg actaccagaa cgaagctgaa gttggtgacg cgctcgcaga 240
ggcattccag accggactcg tcaatcgga ggacctgttc atcacaacca agctgtggaa 300
ctcagaccat gggcatgtgc ttgaagcctg caaggacagc ctgaagaagc tgcagctaga 360
ctatctcgac ctccacctca tccagttccc agtagccact cggcacaacg ga 412

<210> 17755
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F7

<400> 17755

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 aagtttgggg ttctgcactg acttggtctc attggagtat tcgtcataaa agaatttctg 180
 tcgtggattg agtacaagga gcaaagtgtg cattgcgtac caatcagtta ttgtgctgta 240
 atttttttat ttctttattt ggtttccggg caaaattgag attaacacat ttcttccac 300
 agattgcagt tcttggtggc tctttgctgg gaacattcct gtctgaaaag attatagcat 360
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<210> 17756

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F8

<400> 17756

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 aaaaaaaggg ggggggtcat tctaggaatc tgtatgtttt act 103

<210> 17757

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-F9

<400> 17757

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 gcaaagaagg aggttatatg gtcaatggtt ggggctcaga cactgaaca gggcgactgc 120
 tcaaagttca agagcagcct acccattgc tgcaacaaag atccaacaat tgtcgattta 180
 cttccaggca ctccatacaa catgcaaatt gccaatgct gcaaggcagg acttgtaaatt 240
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 ggaactacca ataaaactgt taagggtgcca aggaacttca ctcttaagac tccacgcct 360
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<210> 17758
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-G10

 <400> 17758

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 gctcttccgc tgccaaccgt tgcgcgggcc cgactctgtc ctgaagccgt ggcgtacggg 120
 ggattcactt ccattcgacg caatctggcc tcgtcgcca tctcggggc gcttggtcgt 180
 gcgcgtggat tgttttatca gggctctgta cccgtgccct aagtgggagc gtccgctaag 240
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 tactgcaaaa tcctagtag cactggatct gcagc 335

<210> 17759
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-G2

 <400> 17759

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 aagctgcagc tgcagctcaa gctgcaagtg ccgcaagaag taccctgacc tgtaggagac 180
 gagcaccgcc gcgcaagcca ccgtcgtcct ccgcgtggcc cccgcgacaa aggccccgcc 240
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 aaacggcaac tgccaaccct gcaactgctg atc 333

<210> 17760
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-G3

 <400> 17760

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gctagtgtcta gtcccccttc cttocatcca tccatggcat gcgtcagcac cttccagagc 120
tgccccattg ccagaagagc aaagatcaac accagggtcca cgggcagcag cagtagcgtg 180
gcgaaggggt caccaccacc agccttccag ttccagtgcg gggcgtcgac tttcgcggcg 240
gacaccagcc tccggctcga gctggacgag aaccccgagg cgatcatctc gggggcgtgg 300
cccgggaact gtcctctcct cagctacgac gacctccgcg cctacctcga gtcgcaggag 360
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<210> 17761

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G4

<400> 17761

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cgctggagct ggcgataaag gactaccgt acgcggtgga cgggctcgac atgtgggcgg 180
cgatcaagaa gtgggtggct gactactgcg ccatctacta cgccgacgac ggcgcggtgg 240
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tggcggacgc gccgtgggtgg ccggcgatgg actgcgtcgc cgacctcgtg gagacctgcg 360
ccaccgtcgt ctggctgagc tcggcgatcc acgcgtccat cagcttcggg cagtacgact 420
ac 422

<210> 17762

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G5

<400> 17762

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tgtacctcgc aaggaagctg gctgggtgatc cgaaccttca ctttggtgaa gctggtgctc 120
ttaagcctcg ggaagttacc atcgacatgg ctatgcagca gcagcatgaa gctgagcttg 180

ctgcatcagc tgcacaacct cttcctgatg acgatgatga tctgattgag tagagaggat 240
catgattcctt gaacttgagc aagagttgtg ccatgcgtgt tttaaattgt tctacggtga 300
actcatgagt tctcattgtc tggatcatct tttctcctt ggggtgtgtg catcttttga 360
gtgtggcaat ggatgggtact cctcgccatg aatttgctgg gtactttaaa cattgc 416

<210> 17763
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G6

<400> 17763

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agctgcttgt tgatccaaag atgctgttcg ttggggacaa gattggggag ggagctcatg 120
gcaaggtcta caaggggaag tacggtgatc aaattgtagc gataaagggtt cttaacctgtg 180
gcagcacccc tgaagaaaaa gcaacacttg aagcccgttt catccgagaa gtaaatatga 240
tgtgtaaagt gaaacatgag aatcttgtca agtttattgg agcttgcaaa gaaccattga 300
tggtgatcgt tagtgagcta ctaccagga tgtcactgaa aagttacctg catagcatac 360
ggcctagcca attagataca cacactgcaa taacctatgc actggacata gctcatgca 419

<210> 17764
<211> 329
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G7

<400> 17764

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atccagtcac ccatccatcc atccgccccg ctgacggcgg gaatggcccc gctcgtgctc 180
tccgagtgtc gcagcctcgc gccgctccgc ggccctggctc ccgggcgggg cgccattgcg 240
gcgccatcac gcccgcgct ctcgctgcg ccgcgccgtc gtcgcacgtc cacctccatc 300
cacgctact gggcgtccg cgtctccgc 329

<210> 17765
 <211> 259
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G8

<400> 17765

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 ctggtccttg tggttatcta aaacgcacgc atgctctatt atagctagtc atcactatat 180
 atatacttgt gtttgtgtat tggtgttctt gttctgctgg tgtctccgcc gtttaatttg 240
 acctagttct agatcgcca 259

<210> 17766
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-G9

<400> 17766

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 cgggtgccatg gcccaggagg tgctgctggg cgcattgcgac agcgggctcg tcttcgagcc 180
 cagccagttc accgtcaagg ccggcgacac catcacattc aagaacaacg ccggctttctc 240
 gcacaacttc ttcttctacg aacacgaggt gccgagcggc gtcgacgcca ccaaggatct 300
 cgcattgagga cttactcaac gcgccaggcg agacctactc cgtcaccttc accgtgccgg 360
 gaacctacgg cttctactgc gagccgcatt aaggagcccg aatggtcggc 410

<210> 17767
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H1

<400> 17767

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 tacatgcgtc tgtgcttagt ttacatcgac cgcttacagc aggcagccat tgacattgat 120
 tgatgagcac acatcgatca tgagcatacg cgggctgggt caactactac acgcctacga 180
 tctgaacaag tagagtacag agaagaccac actgttcact cgacggacgg acgaacgaat 240
 ggatggatct gatggtagta cacatgtacg gcgttgctca gtcagttagt tgccggggac 300
 gaagtctgtg gcgtatgcc aggcgttggt ggcgacggg tctgcgacgt ggtcgaagag 360
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<210> 17768

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H2

<400> 17768

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 gactcgcccc tcatggcgag gaggcgtgc tgatgcctcg cggcgtcaga tctgacgctg 180
 ggggcaagac acctagccgc ttgcggtggc gctcgcttac gctcccaatc cgccgaacac 240
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<210> 17769

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H3

<400> 17769

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 accgcctggg gaagaaggtg cgggtcaagt gcaacgagga cgacaccatc ggcgacctca 180
 agaagctggg ggcggcgag acggggacgc gccccgagaa gatccgcac cagaagtgg 240
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tgcagctcta ctacaactga gccgcgcgcc ctcctccct ctcgtcaggt tggctcgaat 360
tctgaagtca tgggtgcaat tcgcttcgcg gtgatctcta agctcatcac atatataaa 419

<210> 17770

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H4

<400> 17770

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aagggcgggc acgtccacct catctccgag gccgcgacgg acaccgaatg ggacggcgac 120
tgcgccatgt accggcatgc cgacggcgac ctcgtcgtcc tccgcacga cgcggcggtg 180
cccgtctccc tcaaagtcct ggaacatgac atcctcacgg tgtcacccat caaggagttg 240
gcgcttggtt tcaggttcgc cccgatcggg ctggtggaca tgttcaatag ccgcggggcc 300
gtggaaagcc tgacctatca ctcctcggg ggcgacggtt ccaccttggg ct 352

<210> 17771

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H6

<400> 17771

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tttcgacatt ccacatattc gactattctg gtcgatgat aaacggttca catcccagtt 120
ctcagaaggc aagcttgggtg tcaagttcaa gccattttca aagtttctc cttgttacia 180
acatatgagt ttctggatca atgatgcatt tacagtaaac aacttatgtg aggttgtcag 240
atgaatattc ggggatattg ttgaggaggt aaaactt 277

<210> 17772

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H7

<400> 17772

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ccccagcgct ggctcgcatc ctccactcca atatgcagtt cggctctggtg ctccatacaa 120
gtaccgacac cagcgtgggc ccttttttttc tctgtcttgg ccggccacct ctgctcctcc 180
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ccatggtcgc cggtcagccc ctgcgcacgg cttcctgcgc gccgggatgg ctgctctcca 300
ctgatcaagg acgcttgga acagcagtag cccatctcag cactagctat ggtggctcgac 360
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<210> 17773

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H8

<400> 17773

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ttcacgcega cgtcgacgac ggcaaggctc tcttcgtccc gtgggtggag accgacttca 180
ggaccggcga ggaccctgg tggaaggcat gaggatgac cgaaaccagc ggtgctcagt 240
gctcacacat gagacctacg tatgcctccg ttccttgtga tgaggaaata tgcttgcgtt 300
cggctctcct tggcgttggt cctacaaatt cacttgctt ctgtctcccc ctccatatac 360
acactgttgt aaaac 375

<210> 17774

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-H9

<400> 17774

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aagtactatg atgatcaaga tggctacaat tcttgagtga agagtgatgt ttaagttggt 180
 gtctgtgggtg tgtgacaata tctgtgtggt acttggtgtgt atgtgagaaa ttatgtgact 240
 ctggagtctg gatagtgcaa taagtattac tcaagtatat gatgtgaaa 289

<210> 17775
 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A10

<400> 17775

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 catgcttgcc agcgcgacga gagcagggac gt 92

<210> 17776
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A11

<400> 17776

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 tcttgcttga aaagcgagaa taaa 84

<210> 17777
 <211> 89
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A12

<400> 17777

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 gccacggtca cccacctcat ggggtgtgaa 89

<210> 17778
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A4

<400> 17778

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tgctgctgct gcttccggcg gcggcactga aaagaagaag caggcggacg actcgtcgtc 180
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aacaagaag tactgggtag atgggagaaa tgccaactgc ttcattgctgt tccctaaagg 360
attcagcatc acctgggggt cggacgaaag gtactggagt tggcgcaagc tcacacaaga 420
agagaaaaga gggatcga 438

<210> 17779

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A6

<400> 17779

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gttacagtac tatatccgtt ttctttttcc gtcagtgtga aatcatacgt ctctaggtgc 180
tggtttcaga gtatccgaga gatatgtgct agctagctgt gtagtaggat ttcatgtgtg 240
atcgatttcc attacattac atggctttgg cttctgtaga taaaggggtgc attgcatgtc 300
tgttgtaccg tactgtacct actccttttc taggcttcaa aagtgtatgt gagaaactag 360
caacatgtta tatttgaatc gaagtgtatg tacatgttac gtaaaaaaaaa gagagggagc 420
ggg 423

<210> 17780

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A7

<400> 17780

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catcgtgctg gccggtgcgg tctgcccggg ccgacgcgcg gtctctgtca agggcggcg 360
caacgtccgg cggcggcgcc ggccgcgcc gccggttgca ggccagtaga cgaggcggcg 420
g 421

<210> 17781

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A8

<400> 17781

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cggccgcgcg gcctcctcct tcgccgtcgt ctgctccaag aagaagatca agaccgacaa 180
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gcttctgata tgggccgtca cctcgtctgg gatcctcgcc ggccggcgccc tcctcgtcta 420
caac 424

<210> 17782

<211> 96

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A9

<400> 17782

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ctctcattta agtaatttct tcaggttcat cgtaca 96

<210> 17783

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B1

<400> 17783

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ctggagaaat atgtcggcta tatcgttcat ctggagagaa attcttgcac cattacataa 360
atatgaagac ccagaagatc tccaaacttc ttaacaagcg atttacaaca ccagtttggg 420
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<210> 17784

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B11

<400> 17784

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<210> 17785

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B12

<400> 17785

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<210> 17786
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B2

<400> 17786

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 tgcccccatg actaccccat ctgcaacgtc aggcattgaa cctgcctcat gggcaaggac 180
 agccattgt cactgtcagt gaaggctacg atgcgaacc tggccaagcc gcactgggct 240
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 cccctgattg acgacggaag catggctc 388

<210> 17787
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B6

<400> 17787

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 ttcagaagcg ctttaactta tcagaggggtg gcgttgagct ctacgcagag aagctgaaca 360
 acccggggct ctgcgacatt gccagggccg agtcgctccg ctacaagctt ctcgggtgaac 420
 tcgccgtgag 430

<210> 17788
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B7

<400> 17788

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gttacagctg aagatgatga acttgctgca ctgcaagcgg aaatggcatt gtgatcaggt 180
tctcatggag aggtgaaaca tgtaaataaa gatgaaagct gagtcagcta tactatatat 240
ttgccatgcy tgtacaaaact tggccggata tttggcaacc gcagcagaaa aaagaggctg 300
ctccagccca gtgcttgttt cagtgacttt ggaatctgtt gtcgatcgat gacagttctt 360
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tcagtgtttt g 431

<210> 17789
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B8

<400> 17789

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actggagtag gtttggtcat tgatgatgtt ttcagccatg ttccatggga actttttaca 180
taciaaagaaa gtatagggtg ttataattga tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa ggaaaaaaaa ataaaaaaaa agaaagaaaa aaaaaaaaaa agaagaaaaa 300
caagaagatc aaaaaaaaaa agggggcggc cccccaagg gttcaaag 348

<210> 17790
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B9

<400> 17790

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ttcaccgaca tcgacctctt ccacgagcag acgccgaaag ccggcaggag attggctg 118

<210> 17791

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C1

<400> 17791

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cgccgaaccc gaagggcaag gggcgatgca gcgcgcgcc gccaccagcg atgacaggcc 180

gggtgtcgtt ggctgtccct gggggggtg tctcgtctc gctcttctc tgggtccagtc 240

cagtgaacgc cggcattctg tccggtttct cgggactgga gtcgactccc ggccccgacc 300

tcccccggtt cgagttctg gagaaatgga atgcggagaa ccagaagaag tacaccgagt 360

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<210> 17792

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C10

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<210> 17793

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C11

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ccagagcctc ccgtccgttg ctgggggttg ggg 93

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<212> DNA

<213> Zea mays

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<400> 17794

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<210> 17795

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C3

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gctccatcta gccagagga gacggtggct cttgccgagg agacacttga agcgtgggag 120

gccgttcggg acggagcctt gaagcttatg aagggtatg cagtgagggt ttgtggatac 180

tgccctgagg tgcattgttg gccactggc cacaagcac ggaactgtgg agcttttaag 240

caccagcaga ggaatggaca acatggatgg caagcagcgg tgctcgatga cctgatacct 300

cctaggtacg tgtggcacat gccggaatcc ggggaaaaac t 341

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<212> DNA

<213> Zea mays

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caacgcgggc gtggtgcggg agctcgtggc ggcggtggcg gaccacgcgc cgccgggcgc 360
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<210> 17797

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C5

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atctagggcc tttctcatga taatgtcttc ttccttagtg aaaatttttg tggctgttga 180
gcgttctata tgccttgtaa gatgtattat tatgaacttt aactccttca atcatccagg 240
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<210> 17798

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C7

<400> 17798

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gccagccctt gacttcagtt tgtgcttatt cttaatccct gaacatgtgc aaatggagga 180
gcaattcaag gtattgatag ttctttctca ctacctagag actgctaggt tcagtcaatt 240
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aatccaatcc tatgcgattc atgtactttc cttgacatac cagaaagttc caaggcctat 360
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cgcgaactca ggttgggtga 440

<210> 17799

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C8

<400> 17799

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gctcgcgatg aagtggcacc cggaccggtg ggccagcgcg cccggcgcgg ccggcgaggc 240
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ggccatgtac gacgccgggc ttttcgaccc cctcgacgac gacgaccagg atttctccga 360
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<210> 17800

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C9

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cgtcagagaa cctcaggaga tattcaatcg atgg 94

<210> 17801

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D10

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<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D11

<400> 17802

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tcctgtatag aataattttg tcatggcact t 91

<210> 17803
<211> 89
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D12

<400> 17803

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acctcatggc ggccatatcg tcaacttccc 89

<210> 17804
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D3

<400> 17804

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accgccacag ccccgctcc gccaggacc cgcgcgcgc gtcgctcgc cgcgtgccg 180
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ttgtcataag ttataaaatc aaaatcgcca gttcagtttt agcagctccg ttttccgagt 300
tttttctctt ctgtcgttcg cgtagcagc tttgtgaaag gattacgaaa gtgtagcat 360

cagacttgga gaagggaaa

379

<210> 17805

<211> 322

<212> DNA

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<223> Clone ID: LIB84-015-Q1-E1-D4

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ggtgctcaag aggcattgagg tgagcacgag cccactccc gcgaaagcgc acgaagacgc 180
aacgttcagc tgcagtctcc atcgccagta gtcggcagcg tgcattcagc acacgggcgt 240
gcatctgcgg cggaagtgg tgtcttctcc gagacctaac aataaaggag gacgaggacg 300
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<210> 17806

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D5

<400> 17806

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gaaatagtca caaatggct aaagtcagat cagtggacaa gtaattctga tctgctcact 180
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tcttgcaaga agcgcttggc caaacatgtg ttggatgtga cagggtgttac gattgatcca 300
actagccttt ttgatataca gattaagcgc atacatgagt acaagagaca gctcctaaac 360
atattgggag ctgtttacag atacaaaaaa ttaaagggaa tgagtgcaga agagaagcag 420
aaggtcacac cgcgactgt catg 444

<210> 17807

<211> 396

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-015-Q1-E1-D6
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tgtgactca cctcggctgc gtcgtgccgt ggaacggcgc cgagaacaag ttcactctgcc   180
catgccacgg atcccagtac aacaaccagt gcaagggtgt cctgggaccg gcgcctctgt   240
cgctggccct ggttcacgcc gacgtcgact acggcaaggc cgtcttcgtc ccgtgggtgg   300
agaccgacat caccaccggc gacgagccgt cgtggaaggc atgacgatga tccgaaacca   360
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<210> 17808
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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gcacctacgc cgccctcatc ctcagcgacg acggcatcgc catcaccgcc gagaagatcg   180
ccaccatcgt gaaggcggcc aacatcaagg tcgagtccta ctggccggcg ctcttcgcta   240
agctcctgga gaagcgcagc gttgaggatc taatcctctc cgtgggatct ggtgggtggc   300
ctgctccagt tgctgcttcc gcccagctg ggggtgctgc agctgctgct gccctgctg   360
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 <211> 92
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E11

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<210> 17810

<211> 113

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E12

<400> 17810

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<210> 17811

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E3

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tgctgcctag ctgctacgtt agctgctagc gtcacaacat caatcttgta atagcttaat 360
ctccacaatc atcatgtaat ttattgcatg cttcattcac cgtggactca ataattcttc 420
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<210> 17812

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E4

<400> 17812

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acgctcaatt tgagtttgag gtcgatttct ggagcattcg agttcttttc cagtaaactt 180
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ggcgaattgg cggtttggtg gctacaattg ttcggttctt atcttgaagg gtggtgcgaa 360
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<210> 17813

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-015-Q1-E1-E7

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ttgactcttt tgggctttcg attgtccctt ctagcttggt aagcacgtac tgtttatttg 180
tcgaagacgt gctggatata gtctctgata cagtcgtggt gcatgaagac gccgtctcac 240
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agattgacga gtacggtaga tttgggggga ggggaagggg gaggaggagg agagcanatg 360
gccagggaaa gtccggtggc cgagaactcc gcagcgaacc gaagcatccg gaggatgaat 420
gggagcttgc gatggact 438

<210> 17814

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E8

<400> 17814

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<210> 17815

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E9

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ttgccctcga gctctaacca ataaccactg c 91

<210> 17816

<211> 91

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F10

<400> 17816

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cgagctgata aggaggcaag agtttggaaa a 91

<210> 17817

<211> 92

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F11

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gcgactcgtc gtcacccacg aggacgacga cg 92

<210> 17818

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F12

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F2

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gtaaaattcg gtccaccttt tggtaacacc taaggatgaa ccaggatcaa aattctgtca 180

actaaactga ttgtatggcc gtcagacgtt ctgtgttttt gcactacttg gtctgacgag 240

aggatggacg gccaaggact ggggacacta ctacacaaag aaacaacaaa gccactgcag 300

aattctctaa cctatatctg tggaaaaaaa aactagctac actccggggc agatgcagga 360

tttagagact gtgtattcaa aatttagaat gggagttttc ctgataacgc ctcaaaaata 420

gaggaagaga acgcga 436

<210> 17820

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F3

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gtaggggtcg atgcagataa gagattaggg gaggattaaa tatgttcagt tgcaggattg 180
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<210> 17821

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F6

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gccgtaggtc cagataccac cagtagctct ccttgttcag attttgctcg tctagtcggg 360
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<210> 17822

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F8

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tgaagcccc tgccgagctc tccctcttcc tccctctgca tccctccatgc ccgagtcagg 360
aatcctagtc ggcgccttccc tgccctctgc tcgatgttcc ttggcagctc tgctccagcg 420
tcgagcga 428

<210> 17823
<211> 93
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F9

<400> 17823

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agagctacag cctgccgccg cacgagtgcg gct 93

<210> 17824
<211> 364
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G1

<400> 17824

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<210> 17825
<211> 142
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G10

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aagaggagtt tgctccagtg cc 142

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<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G11

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G12

<400> 17827

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aagttaaatg tgatgaagcc atgtataact gcat 94

<210> 17828

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G2

<400> 17828

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tggaagggtca ttctcacttc tgcacaggat tggagctttt gtgacgaatg gtataaagct 180

tttggcagtg ggaactactg cttctttgat tggcactagt gtcacgaatg cagcgctcaa 240
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aactagtgtt gcctatgggtg tatacatgtc catttctagt aacctcaggt atcagcttct 360
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<210> 17829
<211> 472
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G3

<400> 17829

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ctccttcgcg gcgtccgtgt atggaaacat cctcgtcccc tcgctctccg tccccgcgcc 180
ggcacgtcgc gcggcgctgt ccgtcgtcgc caaggtaag gtggccactc cccaggacga 240
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gttgagtgtt ttccgctcaa acaaacatct gtacgtcaa gtcategacg acacaaagca 360
atgtactctg gcttcagctt caaccatgca caaatctctc tccaaggaat ttgaatactc 420
agctggggcca acgatcgaga tagcacagaa gatcgggtgag gtgattgccag ag 472

<210> 17830
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G4

<400> 17830

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cgtctggaat gattttggtt gggacaaggc atcaaattct atctatgtcg accagcccac 180
tggaactggg tttagttaca gtcggtatc gcgtgacact cgccacaacg aagctactat 240
tagcaatgat ctatatgatt tcctgcaggc cttttttgct gagcacccaa agtatgctaa 300

aaatgatttc ttcataactg gggaaatcata tgctgggcat tacattcctg cctttgcaag 360
tcgtgtgcac cagggaaaca agaacaatga gggcattcac attaaacttta aaggttttgc 420

<210> 17831
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G5

<400> 17831

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gcgcgcgcct ggccgccttc acgtacctgc gcatgaacaa gacgctcttt gacggcgaca 120
actggcggca gttcgtgtcc ttcgtcaggg ccatggccga cggcggcgcg agaccagcac 180
tgccacggtg cgacacgggg cactcggacc tgtacgtcgg gttectcgac gccgccaaga 240
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gggaactgta tgtatagatt cagggccttg caggttgcag agttttatac gctgtaatcg 420
agcaggtcgg t 431

<210> 17832
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G6

<400> 17832

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ctcacggggc tcttcttctc cagcatcggc caggagctgg ccacttccc cagcccccg 180
cccgtcacct ccagttctg gctgtggcta gtgacgtggc acctgggcct gttcatcgtg 240
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ggttaagatc ctatccatca tccttggtgc tgcgctgcgt tgcgttgcgt gcgtgctcgc 360
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<210> 17833
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G7

<400> 17833

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tgcccatgcc catgcccaac aaaactctgg tggctcaact gtcaggatgc ttattcagct 180
gttgccctgtc ctactgctgc tgttgctcaa ctctctgcca tcctctgagc ctgtctactc 240
gctgtcccgt tcataccctt atgagcataa gttccaaacc ccacgtggag ttgcatacta 300
tgtcaagatg tctaatttcg aggagcagta tccacaccaa agcactgagc gagecgagct 360
ggagcggcat gttgagaggg attattactc cataatcaca cagaattgca gggctgagct 420
gcagcgtcgc caatgggg 438

<210> 17834
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-G8

<400> 17834

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cgacgcaaga ggcagcgatc cgtatgtcgt cctacggctt ggcaagaaga aactgaagac 180
aagcgtgaag aagagatccg tgaaccccat atggcaagag gagctaactc tgaccgtcac 240
agatcccagc caaccactga agctggtgag tgagcagcaa gcagaacgat cctgtttgtg 300
attcattatt ctagactgtt tgctacagga ggtgttcgac aaggacacct tcagcagaga 360
cgaccccatg ggagacgcgg aggtggacgt ggcgccactg atggaggcgg tgagcatga 419

<210> 17835
<211> 123

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-015-Q1-E1-G9

 <400> 17835

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 aggctgagct tgcagatgcc atccctgtgg tcaagacctc tattggtggc actagaataa 120
 tag 123

<210> 17836
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-015-Q1-E1-H1

 <400> 17836

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 tgatatatcc acatcctcag ggattttttt aattgtttgc agctatgccc taatgtgaca 180
 acaattgttt taagggaatg tgtatgcggg atgcggctat catgcataat ctacattgcc 240
 atggccgaga tgtagttcaa gtgtcactaa ggatgctaga aaacataatc gagaaggcgt 300
 atgcatgtag cattcagagt tcagtggcta aattagattt tcccaacttt tgtgcc 356

<210> 17837
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-015-Q1-E1-H12

 <400> 17837

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 gcgattgtac ctggtcaatg aatgggaacc 90

<210> 17838
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H2

<400> 17838

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ggacaggtgc tggatgctaa ggtcatctac gacagggata gcggcaggtc aaggggggtt 120
ggtttcgtca cctatggctc tgccgaggag gtcaacaatg ccatatcaaa ccttgatggc 180
atagacttgg atggttagaca gatccgagtc acggttgcag aatcaaagcc caggcgtgaa 240
ttttgagatt ttgttaaggt ggtttacagg tcaatagcgt gtgttcacaa gttctagttt 300
ggagcgtcta gtctttcttc cgtatgagta acaaaaagat gctgataatg agagactggg 360
agtgaaactg ctgtccacag gaagatattt ttc 393

<210> 17839

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H3

<400> 17839

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gtagtgatta tactgtcaac agcattcctg ttggtagttt acttggctcc tattactact 180
tttgctgtgc ggctgttcag tgtgcattac agccgaaagg cgacttcctt tctatttgga 240
atgtggttat ctttatggcc gttcttgttt gagaagataa acaaaaccaa ggttgtcttc 300
tccggtgaaa atgtgcctcc aaaacgacgt gtattgttat ttgctaacca caggaccgag 360
gttgactgga tgtacttgtg ggatcttgca ctgaggaaag gccatttagg atatatcaag 420
tacatact 428

<210> 17840

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H4

<400> 17840

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tctgcatcta agtattacat attcttggtc ttcaatgtat ttttggggag cgtaattgca 120
ggatctgctc tggagcagct taaaacttat ctccatacat cagcaaacga cataccaagg 180
atcattggtg actccatccc aatgaaggcg acttttttca taacatatgt gatggttgat 240
ggttggactg gaatagctgg tgaaatattg agactgaagc cgcttatatt cttccatctg 300
aagaactttt tcttgggtcaa aaccgaaaat gacagagaag aagctatgga ccctggcagt 360
atctgctttt actcaactga aact 384

<210> 17841

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H5

<400> 17841

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cgggggcaca ttcgacaaca tgtggaagct cacctagcag gcgcattgct cgaattgttg 120
actgcatctt gccaccaggc tgtttcaggc catcaatgaa cagttaccca tagtatccta 180
caactgaattc ttagaacttg ctggagtcgt ggtaatcgat gtaaccgggg gatctgacgt 240
acccttccac cccaggaggc aagatatccc tgacgctcca cctgaagggtg gtcttcctga 300
tgccacctaa tgttctgatt agctcaggca gtttttctcg acacagatgg gtcttgtgaa 360
ccaggacat 369

<210> 17842

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H6

<400> 17842

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cgccggcgaa gcgggtgcag ctggccgcgc ccgagggccg ccgcgccgct ctgctcggcc 180

tggcgggcgt cttcgccgtc acggccacca cggggtcggc caaggccacg atcttcgatg 240
 agtacctcga gaagagcaat gccacaagg agctgaacga caagaagagg ctgggcacca 300
 gtggagccaa ctttgcgcgc gcctacaccg tggagttcgg cacctgccag ttccctaca 360
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<210> 17843

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H8

<400> 17843

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 ctcccacgcc ctcggtgctt ccaatccgga cctccaaga tctggacctc cggttcgcgg 180
 gcatgcctgg tcgcggcctc cgcgtccaca ccgcgggcgc cgggaggcgg cctctactcg 240
 gcggcgacgt acgagctgac cccggaatac gtagaccgag tcttgacga cgtccggcgg 300
 tacctcatct ctgacggggg caacgtcacc gtctgtgccc tcgaggacgg tgtcatctcc 360
 ctcaagctcg aaggagcttg cggcagctgc cccagctcga cgacgacgat gaatatgggc 420
 atcgagcgt 429

<210> 17844

<211> 114

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-H9

<400> 17844

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 gcagcctccg gatctcaaga agtacatgga caagaagctt cagattaagc tgaa 114

<210> 17845

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A1

<400> 17845

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aaacaaatat ttggctgtga gcattacaaa agaaactgca agcttggtgc tgcattgtgc 120
aataagctat tcacttgcag attctgtcac gataaagtaa ctcaagaggt ccacttattg 180
actcttatga ccatgtaatt ggtgttaata caactacatt aacatgtaaa ggttggtaga 240
tctggaaagt cttgatggtc taatacctat ctatgagtac cgaagaaaag gcgggaaaag 300
tcggtctctg cagcatcgcg cgtgaaaaa 329

<210> 17846

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A10

<400> 17846

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ttcatcaaaa actgtacctg ag 82

<210> 17847

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A11

<400> 17847

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tacatctgga agtacagcat attca 85

<210> 17848

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A12

<400> 17848

cccacgcgtc cgcgacgcg tggggcaaag gcagcacact cagctatcca gcaaaagaga 60
tcgagaggca ggagtcattg 80

<210> 17849

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A3

<400> 17849

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tcaggatttc ctgtgctatt cggagatggg tcacgccctg cagttctgca atctgctggc 120
ataacgtttc caaaagctat catggttatg tatactggaa aggaaaaaac aattgagtct 180
gtaagcagat tgcgtcaagc tttcactgcg gttccgatat acgctagagc tcaagacctc 240
tcacatttgt tagatcttaa gaaagcaggc gcaacagacg ttgtcctgga aaatgccgat 300
accagcttgc agctagggtc aatacttttt aaaggactgg gcgtcat 347

<210> 17850

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A6

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accgctcaa cttcgcgccc acgctcgagg ccaaggagaa ggagctcgcc aacgggaggc 120
tggcgatgct ggcgcttctg ggcttctga tccagcacia cgtcaccggc aaggggccct 180
tcgacaacct gctgcagcac ctgtctgacc catggcacia caccatcatc cagaccttct 240
ccggttgagt cgaggctgag gaggaatacg atccatcgct ggtgagtctg atatggactg 300
gaagacaaac attgaaacct taagttcctt tctggatcag tttgtgtgtg ttaatctatc 360
tggagggtac agattcgggc cgtgttgcaa tgcattgatg gtctgaaggg ag 412

<210> 17851

<211> 86

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A9

<400> 17851

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aactaacacc gagacctaca ccctga 86

<210> 17852
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B1

<400> 17852

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tcggtcggcc ggtcagctat gacgccggga agctcggccg ccggatccgg cgtcatcggt 120

cctcggaact tcaggctcct agaagagctt gaacgtggag aaaagggcat tggagatggg 180

acagttagct atggaatgga tgacgcagat gacatctaca tgcgatcatg gactgggact 240

attagtggcc cccataatac cgtccatgaa ggtcgcatct gacagctgaa gttgttcct 299

<210> 17853
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B11

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taccaaagtt acaaggctag a 81

<210> 17854
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B12

<400> 17854

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tcattcaact ggactggctt c 81

<210> 17855
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B4

<400> 17855

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tgtcaagact aggcggcgca tcttcagat acacacatcg aaaatgacac tggctgatga 180
tgtaaacctga gaagagttaa ttatgtcaaa agatgagttt tcaggtgctg acatcaaggc 240
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<210> 17856
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B5

<400> 17856

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tacctttatg gatttggttg tgacaacaat cctgatgatt atctcatggg tcattatcct 180
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cgttctagtg aagataagga tagcaagaaa aatactgggc cgttttcaag ttttacttgg 360
agtgggtcaac gcaaacttcc atcatatctt ccaaaaattg ttttcgctca tg 412

<210> 17857
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B7

<400> 17857

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 gaactatgat atcaacttgg ttacctgggc tgctgggtta ttctatggct acgtgacatt 180
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 tgtgccaaata gaaatattca gatgggtgat tgctgggtgt gctgggttca tgtctgctac 360
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<210> 17858
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B8

<400> 17858

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 gacagccagg gtaacctcgt gctaactggg ccatcaatgg ccacctcggc agaaagtcca 180
 attgccttca ctttctacct ccatgatggc agcccgcaag ccggagaagc cgctgaggac 240
 gacgaggaca tcgggaggat aatctgcgac tgcacggcgc acgacttctc caactacaac 300
 agggccatag tcgagactgt ccaaattggc tatggcctcg ctgaagtgat ctatgccgtg 360
 ctgaacaacg gggccaagg ccgggtcgct gtcaaacttg ctgcctgcc ggtg 414

<210> 17859
 <211> 84
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-B9

<400> 17859

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agtttagtaac cgctctgacc caag 84

<210> 17860

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C10

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ttcgcgggct ctcggctccc g 81

<210> 17861

<211> 104

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C11

<400> 17861

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tacttgtgct ctaagccttg atccaaatcc acacacattg atct 104

<210> 17862

<211> 57

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C12

<400> 17862

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<210> 17863

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C2

<400> 17863

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ggagcgccat agagaagatt caggccgaca cgacggcgaa tgtcgtcctt gttgagagct 180
ccgtgcccgg ggctttctct gcaggcgccg atctcaagga aaggaggcta atgagttctt 240
ctgaccttgg ggggtatgcc agatccttga ggtctacatt ttcgtctttt gaggcacttc 300
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tggcgttcga tcttcgaaga tgtggagaaa atgctgaact tggactgcca gaaacaaacc 420
ttgctattat acctggagct gg 442

<210> 17864

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C3

<400> 17864

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ttcaagtgga gaggccctcc gaaagcggag caagcatgag ctcgagacat ctgtgatgct 120
gacattggca cgatgtcgtt ttcctcctgg ctcgatttta ttttgctttc aaccgtgccc 180
attgttaaag taaaaactag agtatgcac tatcaaactt gtaataagca tgatgtgcaa 240
tcaaacaaaa tgggtgtactt gtacttccaa aacgttaatt cgtggatgac attgcatttg 300
caaaaa 306

<210> 17865

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C4

<400> 17865

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 gacagctgcc gccgccccat cggccgctc ctcgcccggt ttgacccgc cgccaccgtc 360
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<210> 17866

<211> 437

<212> DNA

<213> Zea mays

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<400> 17866

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 cacttgctag gtcaagggtgt cccaagggtc gtctgtgtga ctacttcccc aaatcgttta 180
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 ctgggctgta tgttcggact cgtgataatc aagtcgtcaa ggtcacactt gtggatgatg 360
 agttggtcta ccaaattggg gagactgctg aaatactatc aagagggcat ctatgtgcaa 420
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<210> 17867

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C7

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atataccaag tacgagggttc ctgaatatgg agaaagagtc catgatggca tgccaatggt 180
 gggtcttcaa gccatgacct gatactagga cttggaagtc cacgttctac ccaattgtaa 240
 cttatagaat ggcatctact actgccacc cagttggcag ttgtaaatgt gttagtcatt 300
 caacaaactg gaaaccactc gaataaggga tcaccaagtc caaactcttc agtcaaagca 360
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<210> 17868

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C9

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<210> 17869

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D1

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 ttggttcaga aatcaagaac atcaaagaat tgggttgggg tctggatggg aaaattgatt 180
 caatggaagc taaacaggac ttctcatgtg ctggtgtgat gtacctctgc caattcatgg 240
 agcaaaatgg tggaaagctt ccggatcgcc tggaatgctc caaaatgacg acaaaacgtt 300
 ttggaggcca aaagttctta cagggattgc aactggcaat agaatcaggg aattgtggca 360
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<210> 17870

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D12

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gaactcattt t 71

<210> 17871

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D2

<400> 17871

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gcgtcgcccg cgacaccgcg aagcgcgctg tcggcgctct cctcggcacc tcatcccgcg 180
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atgccaagga gcatgttggt ggctggtaca gcactggccc agagctaacg gagaacgact 360
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<210> 17872

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D3

<400> 17872

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gcccaccccg cctccgccag tacgagacca tggctcgtgct ccgccccgac atgtccgagg 180
aggagcgcct cgccttcac cagcgctaca aggagctgct cgtcgccggc ggcgcatgt 240
acgtggaggt cttcaaccgc ggtgtcatcc cgctggcata catcatcagg aagaggaaca 300
gccgcaccgg gctgcgctcc acctactacg acggcatcta cctcctcatc agctacttca 360

gcaagccgga gtccatggga cgccctgcag cttaaagctca atgccgagga cgac 414

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<223> Clone ID: LIB84-016-Q1-E1-D4

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gaagacgccg gtgcggatga aggcgggtcgt gtacgcgctg tcgcccttcc agcagaaggt 180
aatgccgggg ctgtggaagg acatcaccac caagatccac cacaaggtca ccgagaactg 240
gatctccgcc acgctcctcc tcacccccgt cgtcggcacc taccaatacg ccatgtggta 300
caaggagcac gagaagcttt ccacagata ttaaagtcgc tgcccttgac agacagcact 360
cggagttttc atgatgggtt tcataatcct cccatgatga ttttacactt gtttgatcaa 420
tttcagttca acgccttttc cagcttc 447

<210> 17874

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D5

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gacggcgggg gatccggcaa tgctccggc ggcagcggcg gcgcatcgac gtgctgctac 180
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gccaatcagc ggttccagcg gatccaggag gcatactccg ttctgtcgga caaggggaag 360
aaggccatgt acgacgccg gctcttcgac cccctcgacg acgacgacca ggatttcccc 420
gacttcatgc aggag 435

<210> 17875
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D6

<400> 17875

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gtgtccttgg cctggagcac ctgcgcgcgg tggacgcctt ctgcgagctc gtcgcccgcg 180
gcatggggcg gcccagagccg ccgcgcacct accacatcaa cctgtccgtg ttcacctccc 240
tgccggacat gtggggccatc gggcagcagt tccccatcat cccgatccag cggctgcagg 300
agcggcccg cgtcgacggc gtgctctcgg acctcacctg cgacagcgac ggcaagggtga 360
gcgagtcat cgccggggagg gacagcctgc cggctgcacg agctgcccac cc 412
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<210> 17876
 <211> 411
 <212> DNA
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<223> Clone ID: LIB84-016-Q1-E1-D7

<400> 17876

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tcgtggggcg cggctccgcg gggctgtcct gcgcgtacga gctctccaag gaccccgccg 180
tgagcatcgc catcgtggag cagtcggtgt cgccggggcg cggcgcggtg ctgggcgggc 240
agctgttctc ggccatgggt gtgcgcaagc cggcgcacct gttcctggac gagctgggcg 300
tggcgtagca cgaggccgag gactacgtgg tcatcaagca cgccgcgctc ttcacgtcca 360
cggatcatgag cctgctcctg gcgcgcccc aagtgaagct gttcaacgcc g 411
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<210> 17877
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D8

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gcggtgatgg aggacgagga gggccccag ctgtccgacg acagcagccg tgacggcggg 180
cagcacgact ggctgtccgc gctcggcggc ggcggcggcg gcgtcggggg cgccgcgggc 240
caggaggact ggctcgcggc gtaccacgcc cgcgcggcgc cggcgcgggc ggggctccgc 300
cggaactcgg ccgactactc cgccgtcgag accgcccggt tcctgcgcgc ctgcgggctc 360
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<210> 17878

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-D9

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<210> 17879

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E10

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cccaaggaaa ccctccgctc c 81

<210> 17880

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E11

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cgcaaggaat ccctctt 77

<210> 17881

<211> 80

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E12

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cttgggtatta caacgagtgg 80

<210> 17882

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E2

<400> 17882

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ttcgggttaa aaaatctttt gaagaagagc aagagtgcag aagataatgc tgccaacggt 360
aagctacgtg tgtctgttg 379

<210> 17883

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E3

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 aatctcaccg ggtggcgggt gcttccctcc ttctcgcgc accctgtggc tttgcaacga 300
 ggaaggtgaa atttgaatgg aaatcgcgac gggagcgata agcgactcc tgcccaagct 360
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<210> 17884

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E4

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 ccatctgctc cctgctgacc gaccccaacc cggacgaccc tcttgtcccg gagattgccc 360
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<210> 17885

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E5

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tccaactcag ggcgctgtgg ctgcacttca tatggtacac tgcttccacc tggctgggtt 240
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 aatgcacctt ggagtcaact gcataagttt tactgggtggc gatactggta tagccatttc 360
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 <212> DNA
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<223> Clone ID: LIB84-016-Q1-E1-E7

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<210> 17887
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E8

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aacgatgagt aacatcacct ggaacagcgt tgatgtccgt tatgtaaccg atgctttgct 360
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<210> 17888

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E9

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<210> 17889

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F10

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<210> 17890

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F11

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<210> 17891

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F12

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tattggttta cagccgccac tgg 83

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<212> DNA

<213> Zea mays

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gactacggct gggacaccgc ggggctgtct gcggaaccgg agacgttcgc caagaaccgg 180

gagctggagg tgatccactc ccgctgggccc aagctgggcy cgctcgggtg cctcttcccc 240

gagctgctcg cccgcaacgg cgtcaagttc cggcaagccg tgtggttcaa aggcgcgtcc 300

cagattttca accaggggcy gc 322

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<211> 417

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gaggaggata tcgcttcgct tgagaacaag tccagtata gttccttatg ggatgacct 120

tccaaggcac aggggatact tgtttctctg acagaggcca aagacaaagt gaagcttctc 180

aacgatttca agttacagat tgaagaagca gagactattg tgaagcttac agaagaatta 240

gattctatag atactggtct tcttgaggag gcctcaaaga ttataaaggc attaaataag 300

gcattagaca actttgagat gacacagctt ctttctggac catatgataa ggaagggtgt 360

gtaattaata tttctgctgg cgctgggtggc actgacgctc aggattgggc tgacatg 417

<210> 17894
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F4

<400> 17894

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ccaagagcgc tgggtgctgc attcgtcaaa accgataagg atttccagac taaagcacgt 360
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<210> 17895
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F6

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tggctttgct ttgccgctca aggaagagca caaattgttt ctagtccgag cgctgattcc 360
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<210> 17896
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F7

<400> 17896

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ccagttcttg gagagccaat ggacttgatg actgcgctgc agctggatgat gaagaagtca 180

agtgtcatg atggacttgt gaaggggtctt cgcgaggctg ccaaggccat tgagaagcat 240

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<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F8

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tgcgctcttc aggcgcagcc gcaagtaagg cgctgcagcc ggatcgagtt gctggaggta 180

gagccgttta ggctgagcaa gaacgagg 208

<210> 17898

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F9

<400> 17898

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<223> Clone ID: LIB84-016-Q1-E1-G1

<400> 17899

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ccgataccca gggaaacaaa tacttggctg tgagcattac aaaagcaact gcaagcttgt 120
tgctgcatgc tgcaataagc tattcagttg cagactctgt cacgataaag taactcaaga 180
gggtccactta ctactcgtg tgaccatgta attgggtgta acacaattac attraacatgt 240
aaaggtttgt aaatctggaa ggtcttgatg gtctaatacc tagctaggag tatggaagag 300
aagggcggag aaaatctgtc tctgaagcat cgcacctgaa taaaaatcat ccaattc 357

<210> 17900

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G10

<400> 17900

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<210> 17901

<211> 102

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G11

<400> 17901

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agaagaacgc cgatgtgcag gtagtcgact tcgtccacga tg 102

<210> 17902

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G4

<400> 17902

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 tgctgctcgc gtcgtcgtc gccctcatgt cggcgccgt cgcacggcg gactcgtggc 180
 tctacgacaa gttcaacacg gacggcaccg tccgcaccca gtacgacgcg tcggggcagg 240
 aggtggcgat gctcagcctg gaccgcagct ccggcgccgg cttcaactcc aaggagcagt 300
 acctgtacgg cgagttcagc gtccagatga agctcatccc cggcaactcc gccggcaccg 360
 tctcgtgctt ctacctctcg tcgggcgacg gcgacgggca cgacgagatc gacattgagt 420
 tc 422

<210> 17903
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-016-Q1-E1-G5
 <400> 17903

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 gcctggggcg cttcgacgcc gccgagctgc tccgcgtcct gccgcctgc cgccacgcct 180
 tccacgccga gtgcacgac acctgggtgc tggcgactc cacgtgcccc gtctgccgcc 240
 gccgcgtcac cggggggccac gtggacgact ccgagccgga ggactcggcg gcgacgcggc 300
 agcacggccg gcgctcggcg gacgacgcgg aggtacaagt ggttgtgcac cgcgcgtggg 360
 accagcggtg gtccaccgaa ggcttggtgg gccggggccg gtacctcgag gccgccaggc 420
 atcgga 426

<210> 17904
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-016-Q1-E1-G6
 <400> 17904

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cgcccgtccc atcgccaagc cccacatctc ctgcgcgcag acaccgcgcc cgccaagcgc 120
ccagaaccag ccgcccgtcca gcgagcaacc gcaagcacia acacagcagc agtccgtgca 180
agcgcagcca cagcaggcgg cggcgaggcc gaagcgcgcg ggcgggcgcg actccacgga 240
ctgggtggcc tcgtcgctga cgcggcggtt cgggatcggc ggggggctgg cgtgggcccg 300
ctttctggcc gtcggcgctg tgtccgagca gctcaagacc cgcttcgagg tcgcgcagca 360
gcaggccagc agcaacgacg tgggacagga gcaggacgtc gtctgcccac ac 412

<210> 17905
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G7

<400> 17905

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gccagtacca cttcgccggc tacttcccca accggccgac caccatccgg aagaacatgc 180
cgggtggagga gggcggggccg ggcgaggaga tggagaagtt cctcaagcag ccggagacga 240
cgctgctgga catgctgccc acgcagatgc aggccatcaa ggtcatgacg acgctggaca 300
tcctctcgtc gcaactcggc gacgaggagt acatggggga gttcgcggag ccgtcgtggc 360
tggcggagcc catggtgaag gcggcgcttcg agaagttcgg cggcaggatg a 411

<210> 17906
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G9

<400> 17906

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ctcgctgacc ctgtcaacaa caacgcctgg gcctacgcta 100

<210> 17907
<211> 418

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H1

<400> 17907

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attacaagat tactgggata acctcacttc ccttgaatag tttaacgtat ctattcagtt 120
ttaattgata ttctttttct taattcatgc tgcactgttt tttaatggca catgttttaa 180
tattcatggt tgtttatata ggtttaatca agatggggca agtgtttcag ttgtccaata 240
ctttaaacac caatataatt acagtttgaa acacattaac tggccatgcc ttcaatctgg 300
caatgatagc aggccgactt atttaccat ggaggtttgc agtatacttg acggtcaacg 360
ctattctagg aagctaaatg agcgccaagt cacaagcatc ctgaagatgg catgtgag 418

<210> 17908
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H10

<400> 17908

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gcaaccaccc ggtgtggaaa agtc 84

<210> 17909
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H12

<400> 17909

gcggggtcgac acaagcctct acacagactt ctagcagcac gttccccaga gcttctattc 60
ctggccattc gccgtcgacg tcggcggaga ggtgttcgat ccggg 105

<210> 17910
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H2

<400> 17910

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cgctggagac ggcaaggga agctcaatcc gtagcgtctg gcttagcatg ctctgtgcgt 120
cgcgcgcttg gctgtgacag cgcaggattc cagccgcgta ccgtcccaag gatccgccgg 180
cacgccaggg cggcccgccc ggtgacgggc gaccagcgac gagtgtctag cggaccgcag 240
gtacgctggc ctatctggaa accggcgctc cgaggagaaa tgccaagcac aggctcgtct 300
ttgtccatgg gtgcgactcc tgcagacacg acgcgcttcc gatctccacg gagcttgccg 360
aagagctggg cgtttacatg ttgtccttcg atcgccccgg gtacgccgag agcgaccgca 420
cccgggcagg acccaggaga gcatcccgct cgacatcg 458

<210> 17911

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H3

<400> 17911

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agtgttggat ttaaagctgg tgtaaggat tataaattga cttactacac cccggagtac 120
gaaaccaagg atactgatat cttggcagca ttccgagtaa ctctcagct cggggttccg 180
cctgaagaag caggagctgc agtagctgcg gaatcttcta ctggtacatg gacaactgtt 240
tggactgatg gacttaccag tcttgatcgt taaaaaggac gatgctatca catcgagccc 300
gttcctgggg acccagatca atatatctgt tatgtagctt atccattaga cctatttgaa 360
gagggttctg ttactaacat gtttacgtcc attgtgggta acgtatttgg tttcaaagcc 420
ttacgcgctc aacgttttg 439

<210> 17912

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H4

<400> 17912

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tttatctcat ataaaaagta gggaacacta ccacatataa gttgattttc ttctatctaa 120
atgtataata tgggattaaa gactgataat gccataccat cttcacacac cacatttact 180
ttcttattga attggaccac aaactaatga ctttaattcca cgggtagggc ctctcttcct 240
ccctcttgta ggctgtatta gcttagtcta gatcgaatca gctttcggct ttgggtcgct 300
cacgtcaccg gccggccacc atcgctacga cagactcact cccaaacggg ctgaggctgc 360
tgggcgtaat cctttaagga gacgaaaggc atcttcccgc caag 404

<210> 17913

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H5

<400> 17913

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ttataaagtc agtgattcct ttccatttaa gtggataaac aagaaatgga aagaaggttt 120
tcatgtgact gcaatggcaa catcaggcaa tcgatgggct atagtcatgt cccgcagtgc 180
tggattttct gagcaggttg tggagttgga cttcttgtag ccgagcgagg gcatccatag 240
acgctgggac aatggcttcc gtattactgc aatggctgcc acgatggatc agtctgcgct 300
gatcctaagc aagccaaggc gtcgccaag agacgagaca caagagactc tgcggactac 360
acagtttccc agtcaacatg tcaaggacaa gtgggccaag aatctctacc t 411

<210> 17914

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H6

<400> 17914

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acagaggaaa ccagaacctc ccacaaaagg caaacggcga ggtcgagact gaaccttcg 120

gcccactcgc tgtgctcaag ggcttcaaga acttgcccac ggggatgccg tccgtgctcc 180
 tcgtaactgg actcacctgg ctctcttggg tcccgttcat cctctacgac accgactgga 240
 tgggcogtga gatctaccac ggcgacccca agggtagcaa cgctcagatc tcggcgcttcg 300
 acgaaggcgt cagagttggc tcgttcgggc tgctgttcaa atccttcggt cgtaagagt 360
 cctcagctgc aatacatcac t 381

<210> 17915

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H7

<400> 17915

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 tctcaaccaa ggcgtgtctc cgctccgggc acccgtcact ccacgcaaac atgtcgagga 120
 ggaagaccag ggagcccaag gaggagaacg tcacccttgg acccactgtc cgtgaaggag 180
 agtatgtctt tgggtgctgct cacatctttg catccttcaa tgacaccttc attcatatca 240
 ctgatttgtc tgggagggaa actctgggtc ggatcaccgg tggcatgaag gtgaaggctg 300
 accgtgaaga gtcgtcacct tacgtgcta tgcttgctgc tcaagacgtc gcacagcgct 360
 gcaaggagct tggcattact gcactgcaca ttaagcttcg tgccaccgga g 411

<210> 17916

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H8

<400> 17916

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 tttaggggtgc ccagagatcg tccatacta gagcaagata aatcacgaag cacagtgcag 120
 cttcaggcca tatacctgcc cctatgctgg ttctgaatgt gctgtggctg gtgatattcc 180
 attccgtgtt gcacatttga cggatgatca caaagtcgat atgcacagcg 230

<210> 17917
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-A1

 <400> 17917

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 tggttcatgg aggtctccca agaagttgtc agcatcatca gtggaagggg tagagttgct 180
 aatggtgaca gggaagcaaa cagcccaacg gcctcgggtt cagcgcactc aatttcttcg 240
 ttcagatccc atggcagctc ctagtttgca agttggtact ttttttttgg taatcagatc 300
 actgtataat aatcgatagt atattcttcc aacctattcc tccaatcatt tgttttttcc 360
 tttccttttt caaaaatttt 380

<210> 17918
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-A10

 <400> 17918

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 gacaattggt gtatgacgct tgtgaagaat cctggtcttt ttgatgtatt agtgaatcca 180
 aacctctatg gtgacattat tagcgatcta tgtgctggtt tgattggggg cttgggccta 240
 acaccagtt gcaatattgg tgaagggtggc atttgtctag cataagctgt tcatggttct 300
 gctcctgata ttgctggcaa gaaccttgcg aaccgactg ctcttaagct gaggctgtgc 360
 atgatgttgc gccacttga attcaacgac aaagcaaacc ggattc 406

<210> 17919
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-A2

<400> 17919

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ccgccgtctc cgtgaagccc gtggccatca agggctctgc cggcagctcc atctccgaa 120
ggaagctcgc cgtcgccagg ccgtcggccc gctccatccg caggccccgc gcagccgccg 180
tggtggccaa gtacggcgac aagagcgtct actttgacct cgacgacatc ggcaacacca 240
ccggacagtg ggaacctctac ggctctgacg cggcctcgcc ctacaaccgc ctacagagca 300
agttcttcga gacgttcgcg gctccgttca ccaagagagg tctgctgctc aagttcctgc 360
tgctggggcg cggctcactt ctgggctacg tcagcgcgtc cgcgtcaccg gacct 415

<210> 17920

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-A3

<400> 17920

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cttttgtgac tttttcaaat gttggggaac ttgaagcgaa cgatttttat gaagatactc 120
tttatgagga tcaccttacg tagttgtata caagaaactt ggacactaga gcctgggcat 180
cttactgctt tttgcaacac ttgcttctct tctgatggaa tgtttgtaag ttgttgactg 240
tgcttcgctg agaaccatag agggcacagt gaatatttga atttgatggg agcctcgagg 300
atttgccctt gtagagtttg ttgatcctta cgatgcctct gaagcccagt atcacatgaa 360
tcgccaagtt ttctttggtc 380

<210> 17921

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-A4

<400> 17921

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ctgtggtgaa aattcaacat tatgctgtgg gccaggggaa atttgggaaa actaaaattc 120

cagcaaatgc aaggttgaaa ccctaaaag gaatccccgc aaacaagggtt gcaatgggcc 180
aaattttaac gggaatccta aaaaggaatg gcaaataata aactttggga acaattcaca 240
agggcaaatt t 251

<210> 17922
<211> 273
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A5
<400> 17922

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ttcaaaaaca aatgaagtgt aaaaatattg ctgtatttta ttgggcgtga acttttagtg 120
gcaataatgg gggtaaaata agttcccaat aaaatgggcc cccaatgggc cgaaggcaat 180
ttgcaatccg gaatgtaatc caaacacaga aaatttggtt tggttaattt gaaccatctc 240
aaggggcaat cacagaaaaa agaaagagcg aag 273

<210> 17923
<211> 186
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A6
<400> 17923

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cctgacagga acatctgctg ccgcatttac gattacggta gctactgctt cgcctgaggc 180
tgtcgc 186

<210> 17924
<211> 401
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A7
<400> 17924

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tttagagagg tatgtccaga aggtgccgct tgcagctgag ttacttgatg tgaggcgag 180
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agagatcggc aaatctcccc cgctctctga tgaggaggct tggtttgagc tgcgggaaaa 300
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gtccgacatg gtttatgggg ttgttctatt cctgcttctc t 401

<210> 17925
<211> 397
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-A8
<400> 17925

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ctgcgccgat ggccgcggcg gacggcgggc tgaggcggct gttcgagaag tcgctgccgg 180
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gcaagccgcc cattgacacg gcgtccttca cggagatctt cggcgagctc catttccagg 300
agaagcagca gcccgaccga ggcgcctctc tgccgccgtc gccgtcgacc ccgccgacgc 360
cgctccctcc ttcccgacg ctgtcgtggc tcgacat 397

<210> 17926
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-017-Q1-E1-B10
<400> 17926

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ttgccaatag atcggcacag tgggcgatgc aaaagttttg gttttgtaca gtttgcacgt 120
catcaagatg cacatgctgt ccagagttta agtgggcaac ttgacattgc tggtagagta 180

atcaagggttt cacctgtgac acagcagcca tgcattcaac taagtggaag cacaggagat 240
 ttgggtcatg ataaatcttg atgcgtggca cagaatgcca gttccagagc tcgtcgaatg 300
 cagaaattgc gccgcaatgg cattacgacc actttgactg gtgggaaggg cagtgc 357

<210> 17927

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B11

<400> 17927

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 aggctgtggt tgtttacc aa agcagtcgt caccgatttc tctctacga actttgcgag 180
 aaaacttcag gatggaccag tggactttgc tgctaggcga ctggttcttg gacactcgga 240
 caagagagca gttctgacgc atgccactat tgaagaaatt gaagcggaga aatccctcat 300
 cgaagaccaa gctaaagaaa agatggagaa ggcgatcgaa acagtccaaa ctaacttcaa 360
 cactgtgagg acagggcgtg caagcccc 388

<210> 17928

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B12

<400> 17928

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 atgccatgtt tcgtggatgc ttcacaggg tcacatttta actcatgggc tgttgacata 180
 accacgggtg ctaaacaatgc aattgcaatg tcaattttag ttcacgatcg ttgttgcatc 240
 gatcaacgca tatgttgtct gcgatgctag tgtg 274

<210> 17929

<211> 414

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-017-Q1-E1-B2
 <400> 17929

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 agtacaggcg tgaāāāāgt aaattctgca ccaāāāāga cacctgaagg ccāāāāgttc 240
 cttctcgttg gtattgccc acgaagccāā gcaactgcgtg atttagtāāā atgccāggcc 300
 agttcgacac tcgttgccat gcctccagcg ggcctgggāā aatcacggtc catgaagatc 360
 ganggccatg attctctggc accgagtgtg aaggagcāāā aaggāatggt ggtc 414

<210> 17930
 <211> 368
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-B3
 <400> 17930

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 ttctgcgcca tcttgctcgt cctgggtctt gtccttgagt cacaccaggc tgaacctgga 120
 ggcaaatggt gctgcgāāāā cctccaccgga aaataccatt ttaatcgtg cgttgactcg 180
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 agatgtagag gccgttgga ggtgcctgct cgtgatgcgc tttccctgga tgtcatttga 300
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 tatttggtg 368

<210> 17931
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-017-Q1-E1-B4

<400> 17931

gtctatacgg ccaggccaca cgcaccaaga acagaaaagg ttgtaggcat agggtttcaa 60
cctgggtttg atccttaca gattgtaagc gcatctcaag ctggagacat tcagtttctt 120
gatgttagaa ggtcagcaga accctacctg actattgagg cacacagggg ttcacttaca 180
gcattggcgg ttcaccggca tgccccagtt gttgctagtg gtcagccaa gcagatgatt 240
aaagtgttta gtcttgaagg agagcagttg acaataattc gctaccagcc atcttttatg 300
ggccaaagaa tatgcactgt gaactgcctt tcttttcacc cagacaaatc actcctatct 360
gctggtgctg gtgataatgc 380

<210> 17932

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B5

<400> 17932

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acagcaaaat ggagacctcc ttctcccca ccacgtccc caccgcaaag cccctcccg 120
cattccgaac ccacgtgta gccgcatcga aacttcccca acagcgccct cgcgctgca 180
ccatacgcgc ggccatcacc cgtggccgca aggaggagac ggtgaccacc gtcggggagc 240
agctggaggg ctgctacctc ctggctggta tcaagtagca tggcctgacg gtgaagcagc 300
tgcagggaat ccgcgacgcg ctcccagaca cctgcacact gctggtggcg aaagacactc 360
tggtgg 366

<210> 17933

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B6

<400> 17933

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tatactctgc agcctccttc agcgcgggat ctgctcctcc atggccagga tcatgttctc 120

ctccagcaga cagtcggagg tggaggccac tcaactgtatc aaccaaggc agcaggggcc 180
 caaccagtcg gacctgtccg tctccaaagc acggtctctg cataagacct gcttaciaac 240
 ctgaggcagc taaccggatt ctgtcaatgc ggcttatgac ccacagacga tgcacgcaa 300
 ggccaactcc ctgacgcagc tcagcatgta tacctcagat agataaggca cctatgcaa 360
 ggatgcaatg tcagtc 376

<210> 17934

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-017-Q1-E1-B7

<400> 17934

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 agcgccgccc tggtgaccac catcggttgc cgcgccgcca tcgccaggcc caatgctcta 120
 gggctgcctg cgctgagggc gaggagcgag aggggtgcggt gcagctacgc caaggacgag 180
 gccccagtcg gcaccaaggc cgcaggcgcg tcgctgctcg ccgcagcggg cgcggtgacc 240
 gcgtcgggcg ggcgcgct ggcgctcgtg gacgagcgca tgtccacgga gggcaccggg 300
 ctgagcctcg ggctcagcaa caacctgctg ggggtggatcc tcctgggggt cttcggcctc 360
 atctggtcnc tctacaccat ctacacctct gacctcgacg aggacg 406

<210> 17935

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B8

<400> 17935

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 aagcagaagc agcgcaatgg cgagcagcac catggccctc tcctccacag ccttcgcccg 120
 caaggcagtg aacgtgccgt cgtctctctt cggcgaggcc cgcgtgacga tgcgcaagac 180
 ggcggcgaag gcaaagccg cggcgagctc cggcagcccg tggtagggcc ccgaccgcgt 240
 gctctacctg ggcccgtgt ccggcgcgcc ccgagctac ctgacggggc agttcccggg 300

cgactacggc tgggacaccg cggggctgtc ggcggacccg gagacgttcg ccaagaaccg 360
 ggagctggag gtcattccact cccgctgggc catgctgggc ccgttgggct gcgtgttccc 420
 g 421

<210> 17936

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-B9

<400> 17936

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 ttagattacg atacctaatac aattgggttg tgacctcatt actgcagctc cggttgcctg 120
 attcagggga tggcgagggg gtaccccttg tttatatata tggccaaag atcaaataatg 180
 accgtggagc agcagttgca ttcaatataa aggactgcaa cactggaacc tccctgataa 240
 atcctgaaac tgtacagaaa ctggcagaaa aagaaggcct ctccttgggc gtcgggttcc 300
 taagtcatat acgcctcata gacaaccaga aacatggtgc ggttgatgtg ggggttaagtt 360
 cttccttgcc agcggcaaat ggccgtcgtg aaaagaaaaa tagcaaga 408

<210> 17937

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C10

<400> 17937

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 catggccctc tctccacgg ccttcgccgg caaggccgtg aacgtgccgt cgtcgtccgc 120
 cttcggcgag gcccgctga cgatgcgcaa gacggcggcg aaggccaagc cagcggcggc 180
 gtccgggagc ccgtggtacg gccccgaccg cgtgctgtac ctgggcccac tgtccggcga 240
 gccaccgagc tacctgacgg gcgagttccc gggcgactac ggctgggaca ccgcggggct 300
 gtcggcggac ccggagacgt tcgccaagaa ccgggagctg gaggtgatcc actcccgtg 360
 ggccatgctg ggccgcgtc 379

<210> 17938
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C11

<400> 17938

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ctaattgcgga gaagaagccg gctgcgaata agccatcgac ggacgagccc gctgacgcga 120
aggccccggc agggaagaag cccaaggcgg aggagcgc 158

<210> 17939
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C12

<400> 17939

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tccacgaccc accgaaccac aatggccacg ttcctgggaa gtcacccggc gtcctcgcgt 120
cgtcccatcg ccaagccgca catctcctgc ggcgagaccc cgcgcccggc aattgcccag 180
aaccagacgc cgtccagcga gcagccggga gcacagaaac agcggcactc cgtgcaagcg 240
cagccacagc aggcggcggc ggcgaggccg aagcacgcgg gcgtcgcgga ctccactgac 300
tggatagcct cgtcgttgac gcggcggtcc ggaatccgtg cggggctggc gtggggccggc 360
ttcctggccg tcggcgt 377

<210> 17940
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C2

<400> 17940

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tctccgcaag gccaccgga ccgcgcctg ggcaatggct gccagcggc tgcttgccgg 120

cggtgccatg gccagaggag tgctgctggg cgcaggcgac ggcgggctcg tcttcgagcc 180
cagccagttc accgtcaacg ccggcgacac catcacattc aggaacaacg ccggcttccc 240
gcacaacgtc gtcttcgacg aagacgaggt gccgagcggc gtcgacgcta ccaagatctc 300
gcaggaggag tacctcaacg cgcagggcca cacctactcd gtcagcctca ccgtgccggg 360
aacctacggc ttctactggg agccgcacga aggagccggc atgggaggaa agatcacccg 419

<210> 17941

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C4

<400> 17941

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ttgaaccac caggatcagg cttacgatta cagcatgtcg gcgtccccgg agttgtacag 120
gcccgcggaa gcgccggcct tctcgccgtc ctgcgccacg cagccgctcg tgttcgccgg 180
cgacgactac tgctgcagga cgcgcagggg cagcgggatc tgctacctga gggagcccag 240
cacgtgcccg cccgcgcccc ggaatccgcc gccgcgcggc cccacgtgca ggaagcgcct 300
cttccaagcg gggggtcagc aagttgccta agcggggccc gtccctgttg tgagaatcgg 360
cctcg 365

<210> 17942

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C5

<400> 17942

ggataactca tgcaacacac tcagctatcc agcaaaagag atcgagaggc aggagtcagt 60
gccacgtca gcgccgcgt ggtgaccacc atccttgccc gcgccccgat tgccaggccc 120
aatgctctag ggctgcctgc cctgagggcc aggaaccaga ggggtgctgtg caactacgcc 180
aaggacgccg gccagtcag caccaagggc gcaggcccggt cgctgctcgg cgcaacgggc 240
gcggtgaccg cgtccggggg gcccgcgctt gggctcctt 279

<210> 17943
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C6

 <400> 17943

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 cgccgaagcg tctcctcttc ctcacaccgt tggcctagga gaacgtctac ggtgacgac 120
 ctgcgctagt gttatcgag cctcgacaag ggcgatcacc aactgatcg gagcctaaca 180
 atacgtagta tttcgttgca tttttagaag cgcaattgac atgatatcta tgtgttgat 240
 gtacaaacac gactatccga cgtaagtggc cccaggattt ttagacttct acatttaata 300
 gacgaattta cggatgattt aactcgttgc tatcttgaga taaggactac at 352

<210> 17944
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C7

 <400> 17944

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 ggggtggccca gtcgaagggt gtttcagcgt tgcgttcgac cccctcgacg gctccagcat 120
 tgtcgacacc aacttcaccg tgggaaccat cttcggagtc tggccccggcg acaagctgac 180
 cggagtgacc ggcggcgacc aggtcgctgc cgcgatgggc atctacggcc ctgcacgac 240
 ctacattgtc gccctcaagg actgccttgg gacgcacgag ttcctcctcc tcgacgaagg 300
 taaatggcag catgtgaagg acaccacgac catcggggaa gggaagatgt tctctcctgg 360
 taatctgatg gcgacatt 378

<210> 17945
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-C8

<400> 17945

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tgcggggcca tgttgctctg tgacatggct catatcagtg gtctcgttgc tgcgcaggag 120

gctttgaatc cttttgaatt ctctgatgtg gttaccacta cgacccagaa aagtcttcga 180

gggccaaggt ctggtatgat tttctacatg aagggcccaa agcctccaaa aaaaggccag 240

cctgaggggtg ctctgtatga ctacgaggac aagatcaact ttgctgtgtt cccgtcactc 300

cagggggggc ctcacaatca ccaaattgct gctctagctg tagccttgaa acacgccatg 360

tcacctggat tcatggccta tatccagcaa gtcaaggcaa acatagtttc acttggt 417

<210> 17946

<211> 89

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-C9

<400> 17946

acgcgccgcg gcagcagatg gggagagaga gatgcagagc gatctagcga tagagcgctg 60

gtcatgggggt cactgtctgt cgccgccgt 89

<210> 17947

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D10

<400> 17947

ggagaatgca cgggcagctg cccagcagga agggtttgag gtaaagagga aaggggataa 60

ggagtgtgtt gcaaacattc ggctggagat gaactacatg ccctgagaag ttcaagttat 120

cacagccgct tatggaggtg cttgggggtgg aggtggacac tcgtgcacgg gtgattgctg 180

ccctctggca gtatattaaa gcaaagaagc ttcagaacc aaatgatcct tccttcttca 240

tgtgtgaccc tcaattgaag aagggtgttg gggaggacaa gctcaagttt gcaatgttgt 300

cacagaagat atctcagcat ctgtctgccc caccacccat caatttgggg cacaagatta 360

agctgtcagg gaac 374

<210> 17948
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-D2

 <400> 17948

cgcgagtgcg tgaacaccag ccgtattgtc ggcaccccg cgcattctcg cctgctgcag 60
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 gcgctttgct gggcaagccg gtgaaggggc ttggcctgag catgggcccgc gagcgcgccc 180
 agcggagcat tgtgtgccag gcggcgagca gcattctccg cgaccgcgctc cccgacatgg 240
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 tggtcgtccc ctacggcgcc ttcttcgtcc ctgccggctc cgggaacgcc ggcgggcgga 360
 cctacgcgaa ggacaagctg ggc 383

<210> 17949
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-D4

 <400> 17949

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 tgtacacaat cgattcgtcg tgtgatctcg gatttgcac cctccttaag gttagtaagc 120
 tcgatggccg atctaggctt tgatcgtggc aacaacgttc ttcccacgct cccgtgttac 180
 gtcggcacac acagcaccaa atcctcgtcc acggacatta ttgccacat caactcatag 240
 attgttcaca ctacgacca tatgtgagcg agaccgcctc gccata 286

<210> 17950
 <211> 59
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-D5

 <400> 17950

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<210> 17951

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D6

<400> 17951

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ccatcgatcg ctagctagct gacgaccatg gcgccctct cctctgccgc catcacgcc 120

ccttccttca cggccgcgcc cgctcgcgca gtgggtcagca ggaggtcctt caccgtgcgt 180

gcctctctcc gcaaggccac tgccaccgcc gccgtggcgc ttgccgccag cgtcctgctt 240

gccggcggcg gcgccatggc ccaggagggtg ctgctgggcg caggcgacgg cgggctcgtc 300

ttcgagccca gccagttcac cgtcaaggcc ggcgacacca tcaccttcaa gaacaacgcc 360

ggcttccgcg acaacgtcgt gttcgacgaa gacgagggtg cgagcggcgt cgacg 415

<210> 17952

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D7

<400> 17952

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gtccacgggtg aatgaagcat gcaataaatt acatgatgat tgtggggatt aagctattac 120

aagattgatg ttgtgacgt agcagctaac gtagcagcta ggcagcagcc tcacttcaca 180

actacaagtc acacaggagc atggggctct tgaccagact ggcctcactc atttcacctc 240

gaggatttcg tccaaagggt acttgttggt agacacgccg gcgtagttca acttgttgaa 300

tcgcaagagc aacgggtaaa ggggtgttag 329

<210> 17953

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D8

<400> 17953

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ccagcacgtt atcctcgtca ccagctcgtc cgcgtgccca gcttctgtt ttcctcttc 120
ctcccgcgct cggacatcgc cagtgaaggc ccgcgcgcgc cgtcgtttga atcctggttt 180
tctccctact cgctgcgctc acgtcgtcgt cttcctgctc gttccgcgac gtcgctccca 240
gtccacagct cgttggcttc cctgtgcgcg gttgcggatg ccgtcgcccg atccttgtgc 300
cttggccoga tccttgtgcc ttgccgagct catcagcgcc gcgagactct gcatcgctgt 360
gctcagccac gcgt. 374

<210> 17954

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-D9

<400> 17954

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cgcagcagcc gaccaggagc cggccccggc ggccaccaag acggccaccg cggacgacga 180
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caagaagaag gccgcggcgt ccgcgtcagc cagcgccgtg acgtcccgcc ccgtgccgt 300
gcgggagccc cggtcggcgc tcggcgcgcc cgtcagctc ggcttcaccg cgtacagcga 360
gcggctcaac ggcgcgctgg ccgcgtggg g 391

<210> 17955

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E1

<400> 17955

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aatcagacag gagatctgtc ttatatattg atgaggag 158

<210> 17956

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E10

<400> 17956

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ggagatctga tccgatccga tccgatccgt ttgtgctgtg gctgcagcag gaggagaag 120

taaaaaata tggctgccct gccactggcc accgcgaag tatgcgacgc taaccctcac 180

ctgatcatga acggcgagct ccgcgcgctc cagccaatct tccagatcta cggacggcgc 240

caggtcttcg ccggcccccac cgtcacgctc aaggctctac aggacaacgt cctgggtccgc 300

gagttcctcg aggagaaagg ccacggtagg gtcctcgtgg tcgacggcgg cggcagcatg 360

cgctgcgcca tccttggcgg c 381

<210> 17957

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E12

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cggaagctga tgaacctcct cctcctcggc gccatctcgt tgcccaccgt cggcatggtc 120

gtcccctacg gcgccttctt cgtccctgcc ggctccggga acgccggcgg cgggacctac 180

gcgaaggaca aactgggcaa cgacatcacg gtggaggcgt ggctcaacac gcacgggtccc 240

aacgaccgca cgctcgcgca ggggctcaag ggtgaccca cgtacctggg ggtggagcag 300

gacaagacgc tggccaccta cgggattaac gccgtgtgca ctcacctcgg ctgcgtcgtg 360

ccgtgggacg gcgctgagaa aaagttcatc tgcccct 397

<210> 17958

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E3

<400> 17958

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agggcaaacg aagtggttcc aaaagatcac aagtttagtag attactggaa ttatgtctgt 180
tttgagttac cctcgattca gaaatcgag gaggctggag tgacggagct gggaaacctt 240
gtcgctaagg tgcataaagt tgctgtcagc tgttgacatg ggaaaacagt aacgcggtgg 300
caagcgcttt tgggtgtttct gcttgcagct taataatgtt attcgctccg ttcttttttt 360
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<210> 17959

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E4

<400> 17959

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tacaagctag gtacaaaatg aatgaattaa actaaactag tctccggacg agccagatta 180
gcaacgctga cagtggacta aaaagctgca gctggcgaaa gcagttcttt tggaattacg 240
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ctcgatatcc tgccgcggca gatttctgaa atgtcataat agttcccccc aacatgtcaa 360
tgttggaaga gtacagcaac tcgcatctac atgtggcaga gc 402

<210> 17960

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E7

<400> 17960

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gccaccggcc cgcgcggcgc cggcgcgggg cccatctgcg cgtccatgtc catgtcctcc 180
tccaaccgcg cctacgacct gacgtccttc cggttcagcc ccatcaagga gtccatcgtg 240
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gtcatcgtgg gcgccggctc cgcggggctg tcttgccgtg acgagctctc caaggacccc 360
gccgtgagca tcgccatcgt ggagcagtcg gtgtcgccgg gcggcgccgc gtggctgggc 420
gg 422

<210> 17961

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F1

<400> 17961

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agctgccgcg aatcccgact cgattcggcc gcgctcggat ctgcgccgac tagcggggac 180
cgaggcctct cgattcgcct cggggccgag atggatcatg tggtcggagg caagttcaag 240
ctcggcaaga agatcgggag cgggtcgttc ggggagctct tctagctgt gaacgtgcag 300
accggagagg aggtcgccgt caagctggga aatgtcaaga cgaagcacc gcagcttcac 360
tacgagtcca agctatacat gcttctc 387

<210> 17962

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F11

<400> 17962

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cgacgcgccc gccaccgctg aggtgctccg cggcaccggc gtcacgtaca ggcacctcgc 120
 cttcaagccc gaggacaact tcaccaccgc cgacgccgag gctcacgtgc agcggaacgc 180
 cgcgctcgcg catgtcgaga agcaccgact cgccggcgtc ctgcacttcg ccgacgccgc 240
 cggcgctctac gacgtcggct tcttcgaaca gatccgccag atcgaggcgt ttggtacatg 300
 gcctgtggca acaatgtcgg cgggcgagaa gaaagtggta gtggagggtc cactgtgcag 360
 tgccctcaaag gtcgtcgggt gggttctcaag ggact 395

<210> 17963

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F2

<400> 17963

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 gtgagcaaag tgatggacat cgtgaagcag cagctggcgc tggcggcgga cgtggggctg 120
 acggcggaga ccaagtccac ggacctcggc gccgactcgc tggacacggt ggagatcgtc 180
 atgacgctgg aggaggagt caagatcacc gtcgaggagg acaatgcccga gagcatcgcc 240
 accatccagg acgccgccga cctcatcgac aagctcgtcg accagaagcc acgagacagc 300
 gactgattgt cgacgcgacg acacccaaat cctatccatc gatcgccgct cgtgcatgtg 360
 aatgctccgt taatgtactg taattgagta gttttttttt ttatctctag cta 413

<210> 17964

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F3

<400> 17964

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 ccagatgaac tccttggtga aagggtgggt ggaaggcggc ttgatcctgt aacagggaaa 120
 atatatcatt tgaagtattc tccgccagag aatgaagaaa tcgcttcaag gcttacacaa 180
 agatttgacg atacagaaga aaagggttaag ttgaggctgg agacttatta ccaaaatatt 240

gagtccttgc tatcaacata tgagaacatt attgtcaaag tgcaaggaga tgccacagtg 300
 gatgctgtct ttgctaagat cgacgagctg ctgggttcta tcctggagaa gaaaaatgaa 360
 atggtttcca gcacatgagc aaggtaaaaa tgattgggtg c 401

<210> 17965

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F4

<400> 17965

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 cagtogccca gctccagcgc caagttcagg ctccctctgcc tcctccatga caagtccgcg 180
 tcgccaacga cgtcgggtga gatgcagagc tcacagtcac agttgcagag gctggcgacg 240
 gtgttgcaagt gcggagccgt ctgggcagct gttgaggcgc cggggggcgt ggcggtgacc 300
 ggcgaggagg acatcgacct gctagggatc ctgccgccgc tcgcgggtgtt cgcgcgtcgtc 360
 tacttccctg tcgctcctcc ggtgatgatg aactggatga aggctgaggt gggacaagc 419

<210> 17966

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F5

<400> 17966

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 agctttcgta cttgttacct actggatcac cgtcaaactg aattgggttc agcactggcc 120
 acattaccat caaggatctc gtgaccacag ggcttcccct gaaacttgtc ggaatcgcg 180
 ctctgacagt cttgatgcca actctaggat cacaggtttt tggcacaaac agcaagttct 240
 aggagcggaa tgcatatttg acggttcatt cttccaagcc caagttctag gagcggaatg 300
 catatcttgg accgttcatt cctogaagcc cagttgtata tatgtacagt actttccctt 360
 gtatctacgg cctagtcaaa gttagtggga gggatactc tttgatctgt aca 413

<210> 17967
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-F7

 <400> 17967

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 ccacgcaccc agcgcaaagc gatggcgctcg ctcaccatga tggcgctcctt cgccgcccgtg 120
 gcggtggccg cgccctcgcg ccgcggcacc ttcgccgtgg tcagggtccgc caaggctcgac 180
 cgctgccagg agcccgccac gctagcagca accgaggcca ggcccgcgcg cgacggacgc 240
 cgcgccgtca tgctcgcggc tgctcgggcg gccgtggcag ccatcgggcg cgccggcgcc 300
 gccatggcgg gcccgaagaa cgggaccccc gaggcgaaga agaagtagcg ggccatctgc 360
 gtcaccatgc ccaccgcaa ggtctgccac aactgagcac gcc 403

<210> 17968
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-F8

 <400> 17968

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 acgattgctc aaagaaaagt tatggaagat gttgcttcca tattccgagt agcagacaag 180
 gataactctg gcactttaac cgtgaagaaa ataaaagatg tccttgggga catatatgag 240
 agatacccac aagtggaatt gtatcttaaa tccaaccaa tgaagagctt ccacgagcta 300
 cttaaagact cagatggtaa ctccaaggag ttgaaagaac tgaacatcga acagttcaaa 360
 aaggcccttg ctcaagtga ctctcaagtc aagatgctcc cagcaacggc tc 412

<210> 17969
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F9

<400> 17969

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cgccaatacg tacttagtaa gcagggtgtac gtaccttcac gaacgtcttc gagtgttcac 120
atgtagatga ttctacttac tgcatacacg tagagggttaa caatcgagaa acgaggcagt 180
ttatgcatcc aggtttgtgc gcgaagagcc cgtagtctgt gacgtatgat acgtgtaaga 240
gtcgtatcaa tcccaagtga gtttatcgcg tcacaactca gttgcagct 289

<210> 17970

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G2

<400> 17970

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actttgaagg catcaagagc gctatttcaa cctatgccat tgaccatagt ctcgagagcc 120
cagcagaaaa tggaagtgtc tcgaaccctc atctgaaatc agaagatgga gaataagggg 180
gtttgaatgg gactctgcag attgtatata atttgagcag cctaagcatt cggtaatgca 240
cgaacaagtt gctgaatggt cacaactgga acagaacatt ttatgaactg gagccagtat 300
ccaattaacc aaagcgtaca cgaacaaggg gaacaaagtg ctctggtgca agtagttgtc 360
ggcagatcac atatgaagag tatatgattg attgggaact gaggtgtcc 409

<210> 17971

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G3

<400> 17971

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gccgcctccc cgtctctcgc cgatctcccc caaacctag cctcgacctg accgccagcg 120
ggcccgcagg ccggagaagg agtcggagtc gccccaccc acccacctc tgccgcgggc 180

ggggagcggg cggcggacga gatgccgtcg cacggggatc tggaccggca gatcgcgag 240
 ctgcgcgact gcaagtacct gcccgaggcg gaggtcaagg tgctctgcga gcaggccaag 300
 gccatcctca tggaggaatg gaacgtgcag cccgtgcgct gcccgcgcac cgtctgcggc 360
 gacatccacg gccagttcta tgacctcatc gagctctttc gca . 403

<210> 17972

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G4

<400> 17972

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 ctatgctttg ctttgctttg aacacttgtg ttttagggct ttctagctga acccgttgtc 120
 caatattgct gacgttgaaa tttttggtta atcttaaaac tggaaaaaaaa aaaaaaaaaag 180
 gaaaaaaaaa aaaaaaaaaa agacaacaaa aaggagataa aaacaagaaa ataaaaaaaa 240
 aaaaaaagag agaaaaacgg agaaaaaaac gaaaagacca agtaagaaag ggggggcccc 300
 cc 302

<210> 17973

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G5

<400> 17973

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 ttgcgctgtg ggcacaggtt cactcgaca tgcttgagc catgggcgcg gaaatgtgca 120
 gactgcccac actgtcgaac gaacatacgg tcacgatcct gacgacaaac ccttagttca 180
 gaataagctt ataaccacca tggagtttca ctggtgtaaa attcgctgtt gtgggcatgc 240
 cagttaatcc ggtgctccta tggcgacatg taatttctaa taccctgaat attttgtgtt 300
 gtgtcgctca gagaggttta tgggtgtgtg tgcgagtga ggctgatagc agtatagctt 360
 agaaagcacc cttttgtgtg tatgtagcga gggatcacg 399

<210> 17974
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-G7

 <400> 17974
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 ggtagccgcg tagcgccgcg tcagtcgccc cgcaccacgg cggagaaatt gcggcttcac 120
 ctgcctgtg tgtcctgatt acgcgaggac tcgagcggct aagcttagca gcgatctcgg 180
 tctcagcgag gtcggtgggt gccggaagag aaatgggtgg cttccactta catcacacct 240
 gtgtcaaggc acgcaaagtg tttgtgcgag atg 273

<210> 17975
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-H10

 <400> 17975
 gaaataagt aatggtcgaa tgctatgctg gaaaagaatg ttgaggagct tcgtgaatcc 60
 aaggagagat gctttgagaa atccttggat tgcgtaagaa aactaaaaac cagctttgcc 120
 aagggtgggtg cgtagtcttc caaagaaaag ttcattcgag gtgaccccca gggaatcatt 180
 gattgggtag gtgaagaagc cgaagctttt ggagatatcc ttagtgatca tggggatagt 240
 tgtgccttcg ccggtgcttg gggggttgca gcaattctgg agaaagctgg ttgtgaccat 300
 gtgaaagctg tggctcagac cgaaacgggc ttctccacag acgacaggaa ggaccctcgc 360
 ggccaagcca ctttgggtggg cgggaagttt t 391

<210> 17976
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB84-017-Q1-E1-H2

<400> 17976

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attcaaggac tctgagcaga agaaaaaggc tatcaagaaa gcaaaggccg ctactaggaa 120
caggaacaag gaagctcgtc gtggagaggc tgaccgtgtt attcccactt taaaaccaaa 180
gcatttgttt tctgggaaac gcactcttgg aaagacaagc aggcgataag ctcagtacct 240
cactggatct ggtaataaag gactgggtgca attttgggtg gagcaatttg atgaaacggg 300
agcttttatg tctagcactt atgtatgcta cttatttatg aaatgtcttg ctgttgctgt 360
atcatgggtcc tctttaagac agttttacta gtttatacaa tg 402

<210> 17977

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-H4

<400> 17977

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cctaggggat cgtcggagag gaatcgcaaa gagggccgtc tcatccgagt taaggaagcc 120
atggagcaca aggaggctgg gtgccaggcc cccgagggac ccatcctctg catcaataac 180
tgtggcttct tcggcagcgc ggcgaccatg aacatgtgct ccaagtgcc aaggagatg 240
ataacgaagc aggatcaggc caagctggct gcctcctcta tcgacagcat cgtgaacggc 300
agcgacgccg tcatggagcc ggttggtgct ggcagcaaca cggtagtagc tgttgcccaa 360
gttgagttgc aaacaatgaa cgggtgcagca gcccgctgat gttgccg 407

<210> 17978

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-H5

<400> 17978

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gtcccgagg ctctactccg acctcttcaa cagcgtcacc agcctggatt acgcccag 120

agacaaggac gcgctccagg tgcaggagca ctacggcaac atcgtctccg ctctcgacga 180
gattttctcc aagatcacgt aggatactca gaaatctata tttccagttc gtggatacaa 240
aggcggagca cggataagag agaactagga acttagatca cgttcacatg aaggaagaac 300
tagcagcaca tggcgacagg caaaaaggat ccttcttgct atgtagcgac attttttttc 360
ttctagagag aactattttag ctagtctctg tgagcttc 398

<210> 17979

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A10

<400> 17979

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tcacacctga tcgtcatcca cataatccct atctcggaat caactgttct acttcgaagt 120
atctatcaac ttcactacta cagactacag tccacaatct atcagcttca ctactacagt 180
ccacaacaga ggaagaaaat tatccaacgg acaattccct atatgccact acagttttgc 240
tcggtacttt attcaccatc gtaaatatta taatcggatg taaattctta tccttctata 300
tcacgcgt 308

<210> 17980

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A11

<400> 17980

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cattttcttc atcggccttc aattgaggca aagctcggtc ctacgctcta agatgtctgc 120
gtgatgatac atggattcaa aagaattggt tgcttatctg gccacttcc cgcactcctt 180
tgttccttta ctctgttaat atactaagat gtcaggcccg cttaacaac agtaataaac 240
gaccttcgaa ggtcatgtag ttatcagttc agtttgtctg gtgtttattg catggggata 300
gaagtgatta agtgaagcgt tcaatgttca gtgaagtggc tgaaaacaat cagggttagt 360

attatgtacc ttctcgcttg ctctg

385

<210> 17981

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A12

<400> 17981

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gcgaggcccg cgtgacgatg cgcaagacgg cggcgaaggc aaagccggcg gcgagctccg 180

gcagcccgctg gtacggcccc gaccgcgtgc tctacctggg cccgctgtcc ggcgcgcccc 240

cgagctacct gacgggagcag ttcccgggcg actacggctg ggacaccgag gggctgtcgg 300

cggacccgga gacgttcgcc aagaaccggg agctggaagt catccactcc cgctggggca 360

tgctggggcg cttg 374

<210> 17982

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A4

<400> 17982

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gactggaaaa ttgtggccat ttctttggat gaccgaaaag catctcttgt gaacgacgta 120

gatgatgttg agaagcattt tccggggaca ctgactgcca tcagagactg gttcagagac 180

tacaagatac ctgatggaaa gcctgccaac aaatttggtc tcggcaacaa gccgcaggc 240

aaggaatacg ccctgaaggt cattcaagag accaacgaat catgggagaa attggtaaag 300

agaaatattc ccgctggaga gctctcgttg gcctgatttt ggcccatggg aagccaccac 360

attcctttga act 373

<210> 17983

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A5

<400> 17983

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ctgagttccg tggtcgaatg gtctcggcat tccgtttgca ccaattctct gacgttgctg 120

attacagcct tacagctaac atggaaacag agctagatca cgtctctgct gggctaactg 180

aatggaacgg tcttctaaaa ggctactggg aacgaatcag caaatattgt gcagatgcga 240

gttatcc 247

<210> 17984

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A6

<400> 17984

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cgctgcagg gcaagtactt cttccacgag cagatttcaa ggcacgcac catcatgaat 120

atcgttgaca aaaccctca tgtgcataaa gacgcatttg ttgctccaag tgcacccctt 180

attggtgatg ttcaagtcgg gtcaggagct tccatttggt atgggtgcgt cttaagaggg 240

gatgcagaca tcatacacat tggatctggg accactatac aagacaattc tcttacacat 300

gtgggcaaat ctaatctaag tggga 325

<210> 17985

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A7

<400> 17985

caaaaaactt gaagagcagg ctgcccaact tcacatgttg actggctggg cacagattgt 60

tgaagttgct gtatcaagaa ggatgtcatt attcgaggac tgttatcagc tattgtttga 120

gagaagcata ccaagttctc agtgacccta cacagcgcca agcttatgac tcgcatggga 180

aagacgacat ctcaacgtac gttcagttac aaataaatta cttgccgccg cttttcagtg 240
gaaccagggc ttgttggaac atgggaaagt ttcttatttc tatgtgaatc aaactgtttc 300
aaaccagtcc agtgcctttt ttttggcact gctgc 335

<210> 17986

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-A8

<400> 17986

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ttttcgagct tgcaggaatc gacgggtcaag cttcggtgac caagtgaact gggtcttcga 120
gttctggaag gttgaagacc ctgagcatct atttggtgaa ggttgtccac attgcaacca 180
ctgctcagga gaagacgaag tctgtgaagg agacttccag gagtttcaag actacgacga 240
attctaggtg tgggttggcg gcaaaccoca gtcagctggc tgtgaaggcc ttatctttac 300
tgtgtttcgc taacactttg atttaactgt aagttg 336

<210> 17987

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B1

<400> 17987

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gaccacgcac ggccggtgcg acttcggcgg ccgtctcttc atgggcatga ccgctcaccc 120
gaagaaagac cccgtcactg gcgaggtctt tgcgttcagg tacggccccg tgccgcccgtt 180
cgtcacctac ttccggttcg acccggccgg gaacaagggc cctgacgtgc ccatattctc 240
agtgcggcag ccgtcgttcc tgcattgactt cgcgcgcacg gagaggtacg ctatcttccc 300
ggagatacag atcgtcatgc agcccatggg catggtgacg ggcggcgcgc ccgttgggtc 360
tgacgc 366

<210> 17988

<211> 98
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-B11

 <400> 17988

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 ttccgaatga taccaacaat cctaactgag tttttgcc 98

<210> 17989
 <211> 159
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-B12

 <400> 17989

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 acaaacaact ggcacaagtg gtttccgttc cttatgacaa acgcctgctg tgaaccctgc 120
 gcacacccga aaggcgcgtt tccggtgget gtggtgttc 159

<210> 17990
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-B2

 <400> 17990

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 aaggccggcg agtctcttaa aaccaaatag ttttggaaact ctatcctgcc atgtttaacg 120
 ttcccaaata aatgatgcca tatgggtgag caattgttac tctatcgta tctgtagttg 180
 tgccctggaat taagtcttta attggcttaa ctttgtgaaa taatcactac tcttttacgt 240
 gccatgcatt ttctagatta catgctatat tgaaaaggga aaaaatcaat ga 292

<210> 17991
 <211> 215
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B5

<400> 17991

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tggtggcctt cttgacatag atatatgtgg ccctaacaat cctaaaatgg caagccttta 120
aagaacaaaa aattatcaaa agaaaccttg gtggtcaccc gtttaagttg aattcaaacc 180
tggtgtgaag gtcaatgggt tcaagctgcc caaat 215

<210> 17992

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B6

<400> 17992

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tctggtttta cgcacatgct gatgaaggag aacgtggtga aattgtgttt ggtggaatgg 120
attctagcca ctacaagggc gatcacacgt ttgtcccagt cactcggaag ggatactggc 180
agttcaacat gggatgatgc ctggttgatg gaaagtccac ctggggtttg tgccggtggc 240
tgtccagcca tcgcagattc tggaacttcc ttgcttgctg gccccacaac cataattact 300
gaaatcaatg aaaagattgg tgctgctggg tagt 335

<210> 17993

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B8

<400> 17993

acccacgcgt ccggtgtcgt gtagtgtgta gtcgcagcag ctagcgcccg gccggccagt 60
cgagtgagtc catcctccat cgccatccaa tggccgccac cgccctgagc atgagcatcc 120
tccgcgcgcc gccgccctgc ttctcgtccc cactcaggct cagggtcgcg gttgccaagc 180
cgctggcggc ccccatgcgg cgccagctgc tgcgcgcgca ggccacctac aacgtgaagc 240
tgatcacgcc ggacggggag gtggagctgc aggtgcccga cgacgtctac atcctggact 300

tgcgcgagga ggaaggcatc gacctgccct tctcctgccg tgcgggggtcc tgctcctcct 360
gcgccggcaa ggctcgtctct gggtccgtc 389

<210> 17994

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B9

<400> 17994

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agaagatgag aaagttatct ctaatgaaca ggagacagct gttcctggta aagatgaaaa 120
aactgtgcac atgataaatc ataagaagag taagggtgact aataaaagaa caagtgtgac 180
caaagaggct ggagggcata aacgtgaacc taatagggtca ggaaagcatc tcaataaaaa 240
taaggatacc gataccaacg aagttgatgg ccctgaaagc actgaaacaa atggagatgg 300
gaaagaagag caacgtgaac acaccaagc 329

<210> 17995

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C1

<400> 17995

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actaccgccg ccgcccttcg ccgatatctt cagcggcgaa cagcggccac cagatcccgc 120
ccctgcgatg gaggccgtgg tgaacccgaa ggcatacccg ctggctgatg cgcagctgac 180
gatgggtatc ctcgatatca tccagcaggc cgccaactac aaacagctta agaagggagc 240
gaatgaagcg acgaagaccc tgaatagggg catatcggag tttgtagtga tggcggcgga 300
cacagagcct ctcgagatcc tgctccacct ccccttggtta gctgaggata agaacgtgcc 360
atatgtggtt tggtcaatcg aagcaagc 388

<210> 17996

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C11

<400> 17996

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agaagagggtt atcaattcat tggttgccaa tgttgaatca atgattaaag cagaccggaa 120

gatcacatca ttgaaacaac ttcagggtca tatttggagg attggatttc aaaagaaaga 180

gctacaggga gttgtctttg aggatgttcc tgtggcgcta aagaactggc atgctactgg 240

cataaaggtc tacatatact caagtggaag tagagaagca caaaggcttc tatttggcaa 300

tacaacatac ggtgacctgc gaaagtccct gtgtgggtac tttgatacca caactggcaa 360

cataacagaa aca 373

<210> 17997

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C12

<400> 17997

caccacagcc gccggaagct cctcctcctc cttctccatg agagagatct agcaaagcat 60

agcctccttc ctgctggcgg gatctccttt tgattcgtaa cttataacag aagaggagga 120

ggcacagcac cttgtcaaat gatgaactct cagaagctgc agctgcccgt tcaggatctg 180

atgagtctga gagggagatc attcatcctc agcaagggtga tgatgcacca gtgcactgca 240

gctgtttcgt cgtcgtcttc acctggcctg caggttgctg cccatcccag tcccagcaag 300

aggccgcgtc ct 312

<210> 17998

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-C9

<400> 17998

aatttctaag aacctaaagc ccatgatatc gaaccaatg agcacctata atctgtacag 60

aaatcctaga aacaagaacg caggaaactt catgagattg tcagactttt tgacctttgc 120
 aaacggcaag gatttgtcag gaatcatgat aactgttgag catgctgcat tcatggcaga 180
 ggagcttggg tttggtgtgg tagatgcagt gatcaaagca cttgatgact ctggttatag 240
 caaacagact gcccagaatg ttatgattca gtcaaccaac agctcagttc tggatgaagt 300
 caagcaggaa accaagtaca accttgtcta catgatcgaa gaaagtgtcc gagatgccgc 360
 accttcctcc cttgcggaca 380

<210> 17999

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-D11

<400> 17999

acccacgcgt ccgcccacgc gtccgcccac gcgtccggag atggcacaag ccatggcgctc 60
 catgaccggc ctctcgcacg gcgttctgcc cagcaggcgc gccgccaaca gggccaggac 120
 ggccgccgctc gtcagggcgt ccgcccaggc gcaggcgcag gcgggccgcc gcgccgtgct 180
 cgggctggtg gccactggca tcgtcggcgg cgccttgctg caggcgggtgc acgccgagac 240
 cgtcaagacc atcaagatcg gagccccgcc gccgccctcc ggtggactcc ccgggactct 300
 gaactctgac caggcgaggg acttcgacct ccccttgaag gagcggttct acctgcagcc 360
 gctgccg 367

<210> 18000

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-D12

<400> 18000

acaacgattt acatgcgcca agaaccatct ttcttgctag tttagcggtta tgtacgcttt 60
 tgtaatggct tctaaacttg tttttttgat gtagctgtac atttggtatgt cctgttagac 120
 gtgaaatggt ttttacgtca gatatttata actacttctg agtcagt 167

<210> 18001

<211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-D2

 <400> 18001

 cacgcgcgca agcccaaccg atcgagcagc tctagcatgg cgaacgggtgg gtactactac 60
 gaccacagcg cgggctacag cggctacagc tactcggcgg cgccgaagac gactcgtct 120
 caactcctgg tgttcctggc cagcgtggcg ctgcagggcg ccacgtcgct ctactcgcgc 180
 tatcaatctc cgggtggagaa cctgggtggac caggtgcggt tcgccgtggt gctgtccccg 240
 ctgctgctcc tgctcgccgt ccagtactgg gcggacacgg ccgggtcccc gcggcacccg 300
 ggcggcgccc tccc 314

<210> 18002
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-D7

 <400> 18002

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 ggaaggaacc aggaaccggt gggatatggct atgggacgaa aaatgacaag aataaggatg 120
 tggatacaat agcttcggac ttcacaaagc tgaagcacia ggcttgggca ctccagaaga 180
 gcacaacat gtaccaacct tctacctaaa ggtgtcaata gttcaagaag ttgatactat 240
 atacttatgc ttgtcactgt atagtctata agtcctaatt cagataacag gtgctgcttc 300
 agccttggat atttgccgat tccgagtga gttaccatgg catcggttgc aagaataaga 360
 aagtaatgtg gtta 374

<210> 18003
 <211> 339
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-D8

 <400> 18003

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 ttggccgacg ccaccgtttc tcgtcgcttc ctctcgccgc gcggccgtcc tccaaggcc 180
 gtttcagctt ccgagccgcg acccgcgtcc tcacgcgcgc cggaagcact ggcgccagca 240
 gcgcgcctc gcccgccgcg acgacggcgt cgtcgttgtc gctggaggag ctgcgcgggg 300
 gctgcagcac ctggacgtgg cgagggatgc gcgtgaact 339

<210> 18004

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-D9

<400> 18004

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 gccggcgtga actccagcgt cgtcgggctc aagcccgcgc cggcagtgcc gcaggccgcc 120
 gccgcctcat cgccggcgaa gcgggtgcag ctggccgcgc ccgagggccg ccgcgccgct 180
 ctgctcggcc tggcgccgt ctctgcgctc acggccacca ccgggtcggc caaggccacg 240
 atcttcgatg agtacctcga gaagagcaag gccaacaagg agctgaacga caagaagagg 300
 ctggccacca gtggagccaa ctttgcgcgc gcttacaccg tggagttcgg cagctgccag 360
 ttcccctaaa acttcactgg gtgccagg 388

<210> 18005

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E1

<400> 18005

actggaacag cttctggtgg atgaggggat taactgcgag atagtccgat cagtgcctat 60
 ggagcgtgca aactgccctt atctagcagc acaaacagcg accgaaatgg aagcattttc 120
 gagaacagaa acatttcaaa aaatcggtga agcgtattca aggccaacaa ggatcatccg 180
 tggaaaagaa attgagtctg ctttggagggt tgaccacac gtatttgaga aagatgaaga 240

gaaagttttg tggagcgcct acttggacgt tgctgataag atccatcctg gtgttgatat 300
 taacaccttt gtggatgcct ctcttatcct gatacaaccc ctagaagatt tcttc 355

<210> 18006

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E11

<400> 18006

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 ccccatccg ctctcgccgc cctctcagtg caagcggcgc cccacctgcc gcgtggctgc 120
 agccacagcc agaccagtc ctgctccttc caggcccagg agcggcggcg tccatggagg 180
 ccgccccaaag agggggcttc ttgcggcaag gagaaggccg ggggaggggc gggtgccctg 240
 cttgcgtgcc gcggaggcgg gggtcggtgc ggcaggcgtc gcgaaggagg aagacgagta 300
 cctggcgccg gaggccgggt ggggcgtgcg gcggatggca cgggttgggg acgagatgcg 360
 gcgggtggcg caggtccagg ccgagggcct ccacgtcccc gtcgcgctct tc 412

<210> 18007

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E12

<400> 18007

cttgctctga tagcttgctc caggacgtac gtacgtacgt agatcgatcc atcgatcgt 60
 agctagctga cgaccatggc gtccctctcc tctgccgcca tcaccgccc ttccttcacg 120
 gccgcgccc ctgcgcagc ggtcagcagg aggtccttca ccgtgcgtgc ctctctccgc 180
 aaggccactg ccaccgccgc cgtggccggt gccgccagcg tcttgcttgc cggcggcggc 240
 gccatggccc aggaggtgct gctgggcgca tgcgacggcg ggctcctctt cgagcccagc 300
 cagttcaccg tc 312

<210> 18008

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E2

<400> 18008

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tggtggcggc ggcggctact gtggtggtgg cggcggctac ggcggtggca accgtggcgg 120
cggctacggc aactcccacg ggaactggag gaactgagcg gtggggcccg cgcggccaag 180
ttatcctgtt cgctaccgtg ttgtttaccc tagtccagag tgtttatctt cgttcgtctc 240
gtgtttgttg ttgccatct gtgtttttga ttgaaggctg ctctgtgtca gttgttactg 300
ctgtgttcat cctcggtccc agcacaccca tgcataacc agcatggact gcggatcaat 360
gggtgctgtt acc 373

<210> 18009

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E3

<400> 18009

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gatagatggc cagcaatcca acaagaaact gcgtcgtaca tcaacgtcga ggtcgtatgtc 120
acgggctcct gaagaggtca ttcttcgaga aggattcaag gactctgagc agaacaagaa 180
ggctatcaag aaagcaaagg cctctacaaa gaacatgaac aaggatgctc gccgtggaga 240
ggctgaccgt gttattccta ctttgaaacc aaagcatctg ttctctggga aacgcactct 300
tggaagaca agcacgcgat aagctcagca cctcactgca tctggtaata aaggactggt 360
gcactgttgg tttgatcaaa tttatgaaac ggggtgtttt 399

<210> 18010

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E5

<400> 18010

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 actgcctttc tactccttca cgctgtttctg catcatcctc ccgatgacga tgttcgtgcc 120
 ggaggccgag ctccccgact ggggtggtgtg ctacgtcccg gccctgatgt ccttgcgtgaa 180
 catcctgccc tcccccaagt cgttccccctt catcatcccg tacctgctct tcgagaacac 240
 catgtccgtg accaagttca acgcgatgat ctccgggcta ttccagctgg ggagcgcgta 300
 cgagtgggtg gtgaccaaga agtcggggccg ctcgtcggag ggcgacctca tcgcgctggc 360
 cccgcccaag gagcccgta agcttcacgc 390

<210> 18011

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E6

<400> 18011

gccaaaccct agccgcccag tgccgcccac cgcccgcccg ccctccgccc cgcgtcggac 60
 ggtgccgagg gaagaggcac catgagggtg gagaagtgtt ggttctgtct ctctaccatc 120
 taccgccggc atggaatcca gtctgtccgc aacgacgcca aggtcttccg cttttgccgg 180
 tcaaagtgcc atacaaactt caagatgaag aggaaccctc gtaagggttaa gtggacaaaa 240
 gcatacacgc atttgcatgg caacgacatg acccaggata caacctttga gtttgagatg 300
 aacaggaaca ggccggagcg ctacgaccgc aattta 336

<210> 18012

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-E7

<400> 18012

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 atgagttcac cataaggtac gcaaagacaa aacacagtaa tactttcttga tattggttta 180
 tgcagttcac attccatttc atctttctact gggaaggaat gggctgcata tctggtgctg 240

cagcaacgtc agccacgggg tacctgaaca cgcgggagag ccgctcagtg ggcaccagcg 300
 ggagataggt ggccacggcg ttcccgcgct tggcaccatc acgcaccgcc gaattgtacc 360
 tggcagagag ctgtgcggca gtggggacga ccgccttggt gac 403

<210> 18013
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-021-Q1-E1-E8
 <400> 18013

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 atgcaaagcg tctgccgtgc cttccaaggg ctgaagcatt ggggatgctg gaaaccccg 180
 tccggattac aaaccatect tgcttttgtc tacgtacatt gttcttttcc ctatatgcat 240
 tagatataga tcatgtctag atgtatgacg ctagaacagc ttgcgatttg ggaggaagct 300
 aagagagtaa tagttagctg gtaataata gttcatagct aatatttgcc agataactat 360
 tacttgggta cctaatagct gtgcccttc 389

<210> 18014
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-021-Q1-E1-F1
 <400> 18014

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 catgagattc agtatggagg tgacaatgca tcagcctctc caaggtcaca ataccctagc 120
 caaagcactg caccgacaat gcacattccc aacacaagca accagcaacc atcgccaagc 180
 ttatttgtct caggaaaccc tgggttgaca cagtccaaga attccatggg cttttcaagc 240
 gcattatcca gcccateccg gcggagcctg caaccttacc acctagagca ggacggggat 300
 gcacgggtact tcgcgaacgg tgcaagccgc gatgtgaacc ccacggcttc gaatgattcg 360
 tccatggaca tgcactcgga caacccaact c 391

<210> 18015
 <211> 90
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-F11

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 ctaagataaa aacaacgccac tacacagaaa 90

<210> 18016
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-F12

 <400> 18016

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 aagaacgttc ttgcaatagc tgcagggtata gtggaaggca tgagtctcgg gaacaactgt 120

 atggctgccc ttgttgccca aggctgttca gagatacggg ggttggcgac gaagatggga 180

 gcaaagccaa cactctttc tggtttgtct ggggtcgggtg acatcatgct cacatgcttc 240

 gtcaaccttt cgcggaatag aacagtggga ctacgcctcg gttctggtga aaagcttgac 300

 agaatcatgg gttctatgaa tcagggttgc gaaggcgtat caactgctgg ggctgtc 357

<210> 18017
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-F5

 <400> 18017

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 taagacgagt aggagcttac agaagtctgg gagaggtaac catgtccaag gagaagggcc 180

 aaactggggt cttgttgctg gcgggggttt gcttagcacg ctttcagtca aggttgtgtg 240

caaaactaaag cagttgttag acgggaagca gcaaaataat acttccgaag ctaaaggaag 300
gcctgaagca tgcaagctgc attcagatct ctaccggttc agtgaccaaa ctggctgcta 360
ctactgtatg tcacggcttg caaattggt 389

<210> 18018
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F6

<400> 18018

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ggggtcttcc tcggcgctcg cgacggaggc catgaaagcc aagatctacc gcctcttcgg 120
ccgcgagagg cccgtccact ctgtcctcgg cggcggcaag cccgcgcatc ttgtcctatg 180
gaggaacaag aagatctcag gcgggggtact cgctgggtgcc acggccatct ggctcctgtt 240
cgacgttatg gagtaccatc tcctcacctt ggtgtgccac tgtctcatcg tctcgctggc 300
catcctgttc ctgtggggcca acgcctccag tttcatcaac aagtcccca caaacattcc 360
tgaggtgaaa atccctga 378

<210> 18019
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F7

<400> 18019

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atggcggacc tgagcgtgaa cgcgctggtg cacgagctgg acagcgaccc caggggcaag 180
gacatggagc gcgcgctgct caagatgctg ggagggaggg cgcccgtgt ccccgcgtc 240
ttcatcggcg gcaagctcgt cggcggcacc aacaatgtca tgctgctcca cctcggcgga 300
gagctcgtgc ccatgctcat gaacgctggc gccctctggg tctagacacc agggcatcgc 360
gcgcgcgcgt actcgtc 377

<210> 18020
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F9

<400> 18020

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ggggccacga caagcacaag aacgcgtca agacggccga ggcctacgac gcggaggccg 180
acgcctggga cccgctcccg gacatgtcgg aggagcgga cgagtgcgac ggcattggcca 240
ccgtggccgg cgaccggttc ctggccgtca gcggttaccg caccggcgcg cagggcgggg 300
tcgagcgga cgccgagtgg ttcgaccgg cggcgcggc ctggcgcatg ctggagcgcg 360
tgcgcgcgcc gc 372
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<210> 18021
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-021-Q1-E1-G1

<400> 18021

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accaacaggt gtcttacatg attttggcga tgggtgtctcc tgtcactcat tctgtgggca 180
actgtgttaa acgtgttgtg gtcattgtaa catcagtgt gttcttcacg acacctgttt 240
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tcaagcgact taagcccaag ccgaagaccg cttaaatagg gattgtaatt ctcatctctt 360
tgtgttaatg gagttaaaca c 381
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<210> 18022
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G11

<400> 18022

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ctcgatctgt gtgtgtgtgt ggactgtgct gttacgttat acgtgcatgt acttttaaga 120
tttctctagc taattgcata gatcggagag gtagtcactc acgggattat gtgagtttgc 180
aaaaatgtct atacgtatac aatttgcatt gcttgacagc c 221

<210> 18023

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G12

<400> 18023

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tctgggctcc ggcttccggc atccaccagg cgtcaatacg gtgcagcgag cagcgagcag 180
caagtcaacc agcagccgag cgaccgccga gcacagggca ccaccgagca gccgagccac 240
cgccgagcac cgagtcttct ctgttcttct gggcggaaca aggtcaatcc agggccgtgg 300
tgccgggtgct ggtttttttt tccaacaagt ttatgttggt cgctccgacg ctgcagcaat 360
gaagatacag aaag 374

<210> 18024

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G4

<400> 18024

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gaagacgcta tgcttaacga ttcaaggagg ctttatgcac caggccggat ttatcacata 180
gtccaaagaa gaacgtgcat gtgcggcaga tatccaccgg tagtcaaac agctgtgccg 240

gtggatggta catttgagca catagttctt tcttgcaatg ccaaagcgga ccatgccatt 300
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<210> 18025

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G7

<400> 18025

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 ttcccttgca gtttacggct tctcatggat tgtactcttt gttatgggtc ttcttttcaa 180
 gctttttact gcaactccta ggaagtcgac agccttgccg acctttgtta ggtttctgca 240
 gggcgctcctt gctattggga taattgcagg aattgccctt cttatcgtgc tcacatcatt 300
 cactgttgct gatctaattg caagtgcact tgcttttata gcaaccggct ggtgtgt 357

<210> 18026

<211> 129

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-G9

<400> 18026

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 cctttatcag agatgatgaa aatggatgta caaaaagatg agcatcgaac gcgcgcgcgc 120
 attactact 129

<210> 18027

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-H10

<400> 18027

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aaggtggttag cacggatgaa cttgctcttg cgctgtatgg aatgagctct ctgccagaat 120
 ttctgccagt tctttctgtc attcctgagc ttccatcgga gtcccaacag cagttgcttc 180
 ttctgccagc ggatttaacc aatcgtatct tatctcgggc tctcgcgaga accattagaa 240
 gactcatgta aagccatacg tgcagaaatt ttcggtcctt gcttaatttt tattttacta 300
 ttcttttttg ttactgcta gaagatgggg attttttttag catctcatct aaaaccaag 360
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<210> 18028

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-H11

<400> 18028

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 gtgcctatga tttgcaaagg gcgtccgggc gtagataagt actgcgaatt cgtcaggtct 180
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 ggggcacatg tatagatgaa tagctcacac atttgcttta gtttagcttc tatcgggctg 300
 tgcaagggaa catatatctg ttgcatcgag tgtcaatgta ttggcagttt tcgagcgagc 360
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<210> 18029

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-H9

<400> 18029

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 ttggcaacat agcaccaaag aatccaaatt gggatctgaa acgtgatgtg cagaagagaa 180
 ttgataaact ggaaaggcgc acgcacaaag cgttggctga gattgcattg gaacagcaga 240

gggagaacga agccttggag gaatctcaag attgaccgac ctgtataagt gaccagtgac 300
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<210> 18030

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A11

<400> 18030

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atgcagaacg aggagggtaa gactgtggac ctctatgtcc ccaggaagtg ctcgggcaca 120
aacaagatca tcaactgcaa ggaccatgcc tctgtccaga tgaacattgg ccacatggat 180
gcgaatggcc tgtatgagcg gcacttcaca acgtttgggc actctgggtg ttgtcaaggc 240
gcagggcgac tcacacaaca ccttggaca 269

<210> 18031

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A12

<400> 18031

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ttgatctccg caatactacg tacaatgcaa tgcagactca tcaccaccag attgcttgag 180
ctgaacaata caatgaagga tcatcatcag tagacttcga cgttccattg ctgctcct 239

<210> 18032

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A5

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ctccatctgc ctgagccct ttg

83

<210> 18033

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A6

<400> 18033

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gatagcttgc t 71

<210> 18034

<211> 168

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A7

<400> 18034

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gctgtctagt caaaactgct aaaagcacgg atgagaatgc aacataaata cattagtcag 120

taccatatgt gaggactatg acttcgacat caccaagctt cccttgct 168

<210> 18035

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A8

<400> 18035

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ggcaatgaag aggagagga gtcagacgat ggtgcgggtg acgttaatgg tgcggaggag 120

atgaacctga gaattgggga tgtcaacggg ggtgagggaa tgacacattc cttacagcgc 180

tgtgacacag ttgggggcat ggagtttgag acgctggata aacgagagga tgagatcagg 240

gatgagttaa catttgacga ttttcctgca agggcatctt tggaaacgat gacatcatca 300

aacctcctcc aagccatgaa ctcaattccc tcatcataca aggtgtgcgg ggaatgtgca 360

tgatctgccc tctgggg

377

<210> 18036

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B11

<400> 18036

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atgagcatga ttggggagag gaccagtag cggcatgggc acaatgagag cgaaaggacg 180

gacgtgagcc ctgtaagaca gccgcggcac ctgtgtggaa cgatccggta cagtagcggc 240

ggccaagggt tccatcaaca gcaccattcc atgtccaagg tcagttactt gggccaagag 300

gccgtacgat acactctggc ccccc 326

<210> 18037

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B12

<400> 18037

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gacctacatg cacctttgcg tggaggactg gtaatggtgg tggaaggcct tctttgcttc 120

tggatctgtc tcattctatg tgttcctcta ctctattaac tacctgctgt tcgatctcag 180

gagcctgagc ggaccagttt ctgccacact ctaccttggc tattcactga tcatgcgcct 240

tgcaatcatg ctctccactg gcgccattgg ttcatgctc tccatctacg tcgtccacta 300

cctcttcgcg tctgttaaga ttgactacag gtgtggcccg ctgcctcttt ctggaatata 360

gtcatccgat caagggaata gttaccctct tataaataat acacaataaa tcaaa 415

<210> 18038

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<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B2

<400> 18038

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cgccacgcgc cgacgacgtg tcggcaaaca gtgagtccat cgcaggactc gcgagaggag 120
gggtgggcgcg tgggtgggctc tgcagggcgc ggcgattccg gcgctgggtg cgggtcagtt 180
tgtgcgcata aagcagcgcc gcgacgagga gcagcgcgtc aaagcggcgg cgcgggcggg 240
agaagagctc cgacgatgta gtcgtctgcg agcgcgtgtg cacctccaag cctatgctca 300
acaatgtaag ggcc 314

<210> 18039

<211> 183

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B3

<400> 18039

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atggcctcaa gctggccacc accgctctgg ggcgacgcac cgtgaggggtg agcacgtgga 120
gggagagccg cgcgaggcgc ggaggcgtct cctccccgtc agtgacgccc gcgtcgccgt 180
cgg 183

<210> 18040

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B8

<400> 18040

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cataaacaaa ccgcaccga gcggccgcaa atcgggatcg gacggcaatt ccgcaaggcg 120
acgccatcgc aggggttggt gttagcacga ccacgacagt gacagcggcc ggggccgcga 180
cgggtgtcct cagctcactg gtggcggggg cgagggggcg cagtgcgcca cgcgacgggt 240
ggtgcagtcg cgctggcaca cggacgaagt cgagcccggc cgatttgtcc gcaagtgcga 300

caagacggag cagcgcgtcc gcgactg

327

<210> 18041

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-B9

<400> 18041

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atgctgttgc tcagataagt gagaccatgc aggaacagat catttctact gaaagccatg 120

gcaatgcaca acgcaagcaa cagataaggt gcaatgagtg tgatgtacac atggaggaca 180

aacgtttacat agatcacagc tcgagttggt gggacaaaca caactggaga ctccacataa 240

aatggggccc gcctctca 258

<210> 18042

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-C2

<400> 18042

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gacgacgacg caggcgccac acatggcatc ccagctctgc cgccgccgta ggcgggttcc 120

acgggctcgg tggcgacgcc gggccgatgt cagcgtggc agcgtggcg tccgtgaggg 180

tgggcaagga gaggtcgtcg tcgcagggca tccgctgcga ctagatcggg tccgcaggaa 240

agtgatcatg gtgaccacga cgatgctcat gctattcgcc gggcggttcg ggctggcgcc 300

gtcagcgaac cgcaagg 317

<210> 18043

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-C7

<400> 18043

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gctcatctgc atggggggacg ccaggggggac gatcgcagtc aaagtccgcg cagcgtcctg 120
cggcgagagc gcctgtgtca agtccttcgg cgacgagcag ctggccgtcg acaggcgcg 180
taacaggctg ctctttgagg ct 202

<210> 18044

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-C8

<400> 18044

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atgaagaaga gggggaaaac tgatcgggat cattatggct atgctaatat cgctggtcgg 120
aacgatcagg atcctcctcc agagaatgta tcagttccct tgctgacat ggtgcgctcc 180
ccttcatttg agtatcacia tcccacatac ccgtgccgt ttttggagtg cacctcaact 240
gtcctatcaa cgcctatctt ggatgcgcac ggatgggatc atgactgtgg ttatgatgga 300
gtgagccttg aagagacact ggctatcctt 330

<210> 18045

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-D1

<400> 18045

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tcagagaggc ggcggcgatg tctgggcgt gggagggcg cgaaggctcg ggcaaggcg 120
gcgcgaagcg ccagcggaag gtgggtccgcg acaacatcca gggcatcacc aagccggcga 180
tggggaggct ggctaggagg ggtggcgtga agcgcacgc ggggctcatc tacgacgaga 240
cccgcggcgt gctcaagatc tgttctcaga acgtcatccg cgacgccgtc acctacaccg 300
agcacgcgcg ccgcaagaag ggtgacgcc tggacgtcgt 340

<210> 18046
 <211> 108
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-E6

<400> 18046

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 agaacctaca aggacgcggc agttggtgcg tacgagcaga cgtacgca 108

<210> 18047
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-E8

<400> 18047

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 ggaggccggg ggatgatcag cgacaagcaa gccatcaagc tccagatttg ggatacggct 180
 tgtgaagagt catgcaggtc cataactaga tcataggaga gacgcgcggc ggggtgctctg 240
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<210> 18048
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F12

<400> 18048

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 gcttttcccg tgtctgctct gcggcagcag gtgaagaagg gcggcggcgg tgaacgcgga 180
 cgcggaacga gtgtagcgg aagcggaggc ggcaacctga atccctggga gtgctcgccc 240
 aagtgcgggt cgcggtgctc caagacgcag tacaggaagg cctgcctcac cttatgcaac 300
 aagtgctgcg ccaagtgcct ctg 323

<210> 18049
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F3

<400> 18049

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acgagattta cgcgagacat atgtgatcctt gtttttgtgt tcctatcatg aatgg 175

<210> 18050
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F4

<400> 18050

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tgctgccget tttctatggg tcgcatgagg cggttcctgt ttggcagggg ggggaaaggg 120
cgcgaagtgc gtacggttgt ctggagcata agcgattggg agacaagtga gtacagaaca 180
cgtcggggga aacctatggc ggcgggcgca cttaccgtgg atgggaagta tctggcatta 240
cgaagccacc gagggtgact tctgtgctgt tgaagtgaac aaaatggaag tttctcact 299

<210> 18051
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F6

<400> 18051

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cctctcaggc tcgcgctatg agaccttcgt tcttgcaagc aagggtgggac tgtcgcgatc 180
atgcttagat agctgggtgg cttctgcgcg caccagaaga cggataaccg tctccaggaa 240

gaggaagagc aagtggaaga ggcattgagtt ctccagctgc caagtaagcg tacctggtgc 300
ctcaaaa 307

<210> 18052
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-F8

<400> 18052

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gtaccgtgct atcacgagcg cgtactaccg cggggcagta cgggcgctcg tcgtctagga 120
ggtcagcgtg cacagcgagt tcgagaagggt ggagagggtg atgagggagc tcagggacca 180
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gacgtcggcc ctgg 314

<210> 18053
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G11

<400> 18053

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acagcggcgg cgccaagcga cgtcctccaa gacagcttct cgttcccaag gctgcttcgt 180
cctcgccatg tgccggacaa gtttaagtggc cagcagctctg cttacttaca cagactgtcc 240
tatatagaga tagtagaata gtagtttcaa gttataaggt cgatttggct agttatacaa 300
cttttggttag ttatttagat aaa 323

<210> 18054
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G12

<400> 18054

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aatgttgcta cggagatact acaggttgcg ccctcccttc ataaggtaca agtccggaaa 180
gcaaaaggcg acactctgga attccaaaag ttctacaaga acctttccaa gaccttaaag 240
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<210> 18055

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G3

<400> 18055

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ggccgggatg aggcggcgcc tggcgcgagg caacgtgaag ctgttcaacg ccgtggcggt 180
ggaggacctg atcgtgcggc aggggcgcgt cggcggcggt ggacgaact ggggcgctcg 240
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gtggtggtca gtcctgcg 319

<210> 18056

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-G5

<400> 18056

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cgcttctgct ccctcggt 79

<210> 18057

<211> 318

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-022-Q1-E1-G6
 <400> 18057

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 accgcttggc gatcgagggc tacgtggcgc gcgaaaggca ggggcgtcgg gaagcacatc 180
 gccagcgaca ccgtcaccgt ccgcggctag cagtgggcga tctacgtcga cgcagacggg 240
 aagaatgccg aggagaactc cggctacgtc gcagtcttca gcgcgctcgc gtccgaccgc 300
 accgacgtgc gcgcgctc 318

<210> 18058
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-022-Q1-E1-G8
 <400> 18058

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 agcctttgcg cgagcagctg tacagctaca tgaagcagca gcaatctctg aatcaggact 180
 ccgttggctc cagaggagaa ggctcggctc aggtggaggt gccctcgctt ggccttgatg 240
 aggccaagat tgcggagacg atgaaaggag agctccagaa ttgagggga accggcggtc 300
 ccgtcattc atgcggcagc atcc 324

<210> 18059
 <211> 176
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-022-Q1-E1-H1
 <400> 18059

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 ccaacccccg gagccattca atgatgaaac cattgaatac agcagatcac tcgatgctga 120

ggaaggcatc acgcttctca agatccatgg gtgggaactg cctccacggt gtgctc 176

<210> 18060

<211> 198

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H3

<400> 18060

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aaggggcggc acaaggatca tgccgacgtt cccaaggcgg ggagataatg cacctatggc 180

gtacattgag cgtgttta 198

<210> 18061

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H5

<400> 18061

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accacttgc actcctgagg cttcgctgg taatgtgggt gacagcattg gatcggaag 120

tgacacagag gggatatgtg gtggatgatg accttgacgt tgttggtgtt gtgac 175

<210> 18062

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H6

<400> 18062

agcggacgcg tggggcagca agaataaaag aagctagcgc ttatagcttg tcagccatgg 60

ccaccgccgc cgcgtctagc ctctcgggt cctccgtcgg gtgctcccgg ctcccagccg 120

ccacgcagac gacaccacg gccctcgtgg tggccatcgg ccgcgcggc gctggcgcg 180

agcccatctg cgcgtccatg tccatgtcct cggcgagggc gccctacgac cggacgtccg 240

tccggttcag ccccatcaag gagtccatcg tgtcccgcga gatgaccgt cgctacatga 300
ccgacattat cacctacggc gacaccgacg tcgtcat 337

<210> 18063
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H7

<400> 18063

agtggcgaaa cccgccgcag cttccactga ccactgctcc acagggtcat atccgattcc 60
gatcctaaga cctcagctgc tgcgagagtc acagccgggt caagcgctgg gaagtggcac 120
gggcacggga tgtgtctaga gcactcgcta ccttctcttg atttcccccc tgagggtccct 180
gaccaagggt cctgtcggcc atggatgcgg tgcgaagctc tgcagtcagc gccacgcctt 240
ttggtccgcc gtccgatcgc gaccgctaga caccgacgct gcgttgccct cccggctgaa 300
tcgccgattc cctgtggggc ct 322

<210> 18064
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-H8

<400> 18064

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tacgcccacg agcatggtgg acgagatcgg gcacttccgg ctctctgtca agcggcaggg 120
caagagcgag catcccaggt tccccaacgg ttggctcatg acccagtacc tcgaggcgcg 180
tcccgtcggc tcggagatcg acgtcaaagg cgcgcgtgtc cacgtggagt ccagccgtcg 240
cggcagcttc gtcattaacg ccaagcagcg ccatgccagc cgctctcgcca tga 293

<210> 18065
<211> 192
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A10

<400> 18065

gcgagcgcgc catgtctaca cgtacacgag gcagcagcac caagaagcag ccgcacatgc 60
gcacgcagcg caaagcgatg gagtcgctca ccatgatggc gtccgctgcc gccgtggcgg 120
tggccgcgct ctgcgcgcac ggcagcttcg ccgtgggtcaa gtccgccaaag ggcgacctct 180
gcgaggagcc cg 192

<210> 18066

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A11

<400> 18066

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ctggaacctc cgtgaggagc aactcaactg gtacaattgg cgagccattt tctgcatcag 120
ccaatccata tgaatcgaac aatctaggtg catatggcag cagttctatt tatgggtgact 180
ccacctggag gttcaactca tctgagggtg atatacctcc ttttgggtcat gatcttgga 240
atgttgatcc agatattaaa tcagaaatat cagcaaacta tatgggcaac tatactgtta 300
ataataatca aacaagcatt agctacatac ttttcttggg ggacacttca gaattcatat 360
aaagtgcac ta 372

<210> 18067

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A12

<400> 18067

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gtgtcggggc agtgtaagta cgtgaaaatc gtaccatatt atcaaacaag taattcatga 120
tccagcatcg gaggtggcca tgtgggttcg tttttcttcc gagggcctaa gaatgcatca 180
taacagagga acgctcatct ttagaagttt ttgagcacta tcatcaacct aggacgcagg 240
tatgttttgc taagttctta aatcgagcgt cgtgtaagat cctttgagtt gattgttgta 300

ccctcgtatc tcct

314

<210> 18068

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A2

<400> 18068

gggtcacgca caactccttc gaggaccgga cgccgtcgtg gacgccgtat cacctcaagg 60
cggacgacgt gggcgagacg ctgcaggcct cggggacgtg cgcgttcgac gactgccagt 120
ggctcaacat cgctgcccgg cctgatggcc tcatgtgtgg caagcacgcc tagttatagt 180
atctgtggga gaaactggac tcacgtatat aagtgtgctg tgtacatagt gcggtgatgc 240
catcttgtct gcttgcatac gcatactact gaacatatga tgatg 285

<210> 18069

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A3

<400> 18069

tccgcccacg cgtccggacc taaagccgga aaacttggtta cttgattcaa agtataatgt 60
aaaacttgcg gatcttggtc tgagcaatgt catgcatgat ggccattttc tgaagactag 120
ctgtgggagt ccgaactatg ctgctccaga ggtaatatct gggaaactat atgctggacc 180
tgaggtcgat gtatggaatt gtggggtgat tctttatgct cttctttgtg gaactcctcc 240
atctgatgat gagaatatcc ccaatctgtt caaaaaaatt aagggaggta tctacacact 300
tccaagtcac ttgtctgctt tgg 323

<210> 18070

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A5

<400> 18070

gtccagccac gcgtccggtg gcgaagaggt ttaagctggc gacaggagcg ttccaactca 60
aatacaagga cgacgaggac gagtgggtga tcctggcgaa cgacgccgac ctccaggagt 120
gcgtggacgt cctggactcg atcagctcgc gcagcgtgca gctgcagggtg cgcgacctcc 180
cctgcctcgt cagcagctcg ggcaccagca gctgcggctt gcacgtggga tgaagcgcgt 240
acctcaggac agcaggatgg aagcccgggt 270

<210> 18071

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A7

<400> 18071

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agctagtgtg ttgccctctg cagtatcaca tacagttttc atcagaatag ttgattcagc 120
tgacttgtct tcattgaaag gtatgcctgc cgaggaatgc atcccaacta ccagacctgg 180
taacttcaga actaatgtgt gccatggaag tagggaacat gtggatccat atgcggcaca 240
gtctactgat acccacggta cctcagactc aggacttcac ccaatttgca gtcctgctaa 300
cattggagat ggcttttatg aagctaccgg gccttg 336

<210> 18072

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A8

<400> 18072

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atctcaataa tcgctctaatt tgtttgcatt ccacctgcat tgatctttga agggcccaag 120
ctaattgcagc atggatttag tgatgccatt gcaaaagtag gtttgacaaa gtttgtcagt 180
gacctattct tggttggact gttctaccat ctgtataacc agattgctac aaacaccttg 240
gagcgagtgg ctctctgac acatgctgtc ggcaatgtgt tgaaacgtgt ttttgtcatc 300
ggttttctcaa tcattgtttt tggcaacaaa attagcacac aaactggaat tggcacgtcc 360

attgccctag ctggtgt

377

<210> 18073

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B1

<400> 18073

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tcttcctctgt gtttcgagca ccccggaacta catcacgccg gagatgccgc aggtggccaa 120
cgagttcgac gacgacgaca aggtggggaa gatgggtttt tattctcttt ttttgagcgt 180
gggtatatca tatatcatat atgccagtgc agtggttagtg tgctgccttg ttgagctcca 240
ctgtttggtt gggttcgtgc atgagaccat cccctgccca aaatctccgg agaagtcagc 300
gaaccctcg 309

<210> 18074

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B10

<400> 18074

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ccccctcccc cgcgcctccg cggggacctt gttaacaatc tgggcccgc atccagggggc 120
attctgcaaa gggcgagccc ggttcgttct cgacctttcg tctcgtcttc gcccgcccgc 180
ccgaccccgc ggagccctag cctagccttg ccccgatcgc ggattcccc tggggcgccg 240
cgcgcccgc cccgcgatga tgaactgcga cggatgcgga gaccccgtag aggaattcct 300
gatctccggc tccgtcgact acgaagatct agccatcttc tgcgaccgac gg 352

<210> 18075

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B2

<400> 18075

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ggcgcccacc gtgatgatgg cctcgtcggc aaccgccgtc gcccgttcc aggggtctcaa 120
gtccgcccgc agcctccccg tcgcccgcgc cagcaccagg agcctcggca acgtcagcaa 180
ccgcgggagg atccggtgca tgcaggtgtg gccggcctac ggcaacaaga agttctagac 240
gccgtcgtac ctgccggccg ctgtccacgg gcgaactgct gaagcaagtg gactacctgc 300
tgcacaacgg ctgggtaccc cgcct 325

<210> 18076

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B3

<400> 18076

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atgacccgaa gaacgcgcac ctcaaggcgc tggacggcgc cgccgagcgg ctgacacct 120
gcaaggccga tctgctggac tacgacgcca tctgccgcgc cgtgcagggc tgctagggcg 180
tcttccacac cgcctcccc gtcaccgacg acccgagca aatggtggag cggcggtgc 240
gcggcaccga gtacgtgatc aacgcggcgg cggaggccgg caccgtgcgg ccggtggtgt 300
tcacgtcgtc catcggcgc gtgaccatgg accccaagcg cggggccgac ctcttggtcg 360
acgagtcc 368

<210> 18077

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B4

<400> 18077

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aaaacgcatg ggcttgaagg acctgaaaat gggatataac attgacatcc attattacag 120
cgtgaggctt aaagctgcac acaagtttct taaagccagg ggaccatgtt aagataattg 180

tgaacctgaa aggaccgga

199

<210> 18078

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B5

<400> 18078

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tgctgttgac ggcgttcagt gccggtggga tgggccttcc tacatgtcta agtaactttt 120
cgaaagcatt ctagtcaadca tggtcagtct gagctatcag atacttgaca ctcaactata 180
ccttcccaaa tgtcagcgtt gacctccctg aatcactatt gccgtctctc gcatctacaa 240
cgagttgatg cgat 254

<210> 18079

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B7

<400> 18079

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ctttttgctt tgctcaccac acaaacggca tcagatggcg tctaccatca tggtagctac 120
ctcccgcatc agtcgcggac aagacgccgt ttcttggcca gggtcgctcc gccgcggccg 180
cctccaatgc cagccccctc cgcgacgtcg ccgccgccgc tgctggcggg cggatcacca 240
tgggcaacga cctgtggtac ggccccggcc gcgtcaaggt acctgggctc cttctccgcc 300
cagaccgccc tctgtactga ccggcgagtt tcccggcg 338

<210> 18080

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B8

<400> 18080

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gagtgggaga taaccgtgca gaaacccccg acgagtgact cgcacgccc gccggctcct 120
cgccgcttgt gaactgaatc acggtacatg taaaactgaa tctggcagag cacacacgcg 180
cctaagccta ttagcgtcta tagacttcgc agggctatgt atagtagata ttagattga 240
gaccctgctg agcatgtacg tgcagtatgt tcctagtcac ttgtgtatca ttactagtaa 300
tgcagtatcc ctctgaaat aaacgtcaaa accccttcct gctgcttcaa gagaagcata 360
caaaaaaggc gggcgctct 379

<210> 18081

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C10

<400> 18081

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cgaagttctt aaaaacttct tctccgaaaa ggggaatatc ctgagtcaa cagtctccca 120
cattccgggg acctccaagt caaaggggta tggttttgtc acattctctt ctgacgaaga 180
agttgaagct gctgttgca ctttcaataa cgcggaattg gaaggacaac tcattctgt 240
gaatagagct tagattatca caaatttgca ggggcacccg atgatgggga atatcttggc 300
gaagacatgt cgtaagaggg gatgttt 327

<210> 18082

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C11

<400> 18082

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gtcgcaaagc aaagcgtccc ccaccatggc ttccacgacg acgacggcat ccaacaacct 120
ggcgggctgt tggctcggcg agctctcgtc ggcgctgcat gggacgtggc aggcgggtggc 180
cgtggccgcc acccacgggc tcggcgagga cgacgacccg cggtgcccgt gccagcagca 240

gcagaggccg tggcgaggcg acgacaggag cagcagcaac aacaaggcgt tgcgaggagc 300
 cgcggtggcc gggacggaca ggccggaggg ggacgtcgcg aggtgcggcg gggccatgtc 360
 c 361

<210> 18083
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C12

<400> 18083

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 gcgatggcat ccgcgaccgt cgttatgggc actgcctcct cgccggtctg gacaagtacc 120
 ccaggacggt gattcgcaag gactccacca agaacacagc gaagtactcc cgcgtaagt 180
 gtttcatcaa gctcgtcaat ttcactcatc tcatgcgcac ccgccacacc ctccggcgtca 240
 atttcaaaga cgtcgcctcg ggccggcccg acacgctctc cacacgggac aagatggctc 300
 aagcctgcaa ggcctccaat gttcgctcgc atgagacggt caagac 346

<210> 18084
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C2

<400> 18084

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 aaaggagggt cagaacttca cctatcagaa gcagcctgtt gaacttggca agcaagatac 120
 acagttaaaa ttcagtgtag atgctgctgc tgaaaatagc tcagctccag ttcaaacagt 180
 tccgctatct gtcggtggcg caaaacaaca tagtgcagct aacagacaaa cgcgacagca 240
 tgttaaggct caaaccaatg gagcaagtgg ctactcaaat gagagcaaag gtagcgaagg 300
 caagaatgat gttgtccatc aatcagc 327

<210> 18085
 <211> 87

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C3

<400> 18085

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tagcctttct cttacagtct tactgtg 87

<210> 18086

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C5

<400> 18086

acccacacgt caacggacgc gtgggatcga aaacagagga ttttaagtac tattcgaaat 60

tccgggagaat tgcgtaaagg gacccttgaa caactcgaaa aagctcgtat tcgattacag 120

aaagtcgaac tggaagcaga tgagtatcga atgaatggat actctgaaat agaacgagaa 180

aaagaaaatt tgattaatgc tacttctatt agtttggaac aattagaaca gtctaaaaac 240

gaaacccttt attttgaaaa acaaagggcg atgaatcagg tccgacaacg ggttttccaa 300

caagctgtac aaggagctct aggaactctg aatagttgtt tgaataacga gttacatttc 360

cgtaccattc gtgctaatat tggcattctc ggggc 395

<210> 18087

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C6

<400> 18087

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tcacttgctc caaagttaat gaagcacggc ctgccaccag ataccctgc tgttgacagta 120

gagcgcggga ctacacccca acaacgaacg gtgttcgcct cgttgaagga tcttgtggat 180

gaagtcaagt cagccgatct agtttctcca actctaataa ttattgggaa agtggtatcc 240

ttgtcaccct tctgggttga gtcacttgaa catgatgcac tgaaagttca gagctcgtaa 300

gcaactgacg ccagatgaca acagattttc ttggttttta gtgactggcc aatacttgag 360
 aaatgcacga tcccacgatc tggaagcaca 390

<210> 18088

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C7

<400> 18088

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 gcattgattt ttggtttcgt actacaggtt caaacaagtg tgagatatgc cagcagggtg 120
 ctgtcaatat cgccccctca gaaacgcaat caagtacaag ttattggggtt tggaggggtg 180
 attccactta tggaatggga cgaggaggac gagaaagggg atggttcagc ccactttggg 240
 ttgcatttgc aattctgatt ggtggtctcg tattggatgt gcggagaccc gtttctcttg 300
 gtgtttccgc acgtcctgtc cgtagactaa gtgggggttct aatagttcac ggattcggca 360
 gcgcaccttc 369

<210> 18089

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-C8

<400> 18089

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 cggcgacgac gcggcgctgc acaaggcgtt cgcgcagaag taccggctgc cgttcacgct 180
 gctgagcgac gaggggaacc gcgtgcgcaa ggagtggggc gtccccctcg acctgttcgg 240
 gacgctgccg gggcgccaga cgtacgtgct ggacaagcag ggcgtcgtgc agtacgtcta 300
 caacaaccag ttccagcccc agaagcacat cggccgagac gctcaaggat cctgcagacc 360
 ctctgaat 368

<210> 18090
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-C9

 <400> 18090

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 ccatatgata ccatgacccc tctccaagcg gctgtaggtg tgagacaggg gttgcgcca 180
 ggacttccga acaagacgca cccaaagctg ttggacttga tgcagagatg ttgggaagca 240
 gatccatccg accggcctgc tttctcgggc attttagccg aactggagga tcttttggca 300
 caagctcagg gaacatcggg aaagacagtc caagatccat caaactcg 348

<210> 18091
 <211> 180
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-D1

 <400> 18091

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 atctatttat ttggtacctt cttgctatct cactttctgc aatacaagaa tgctgtaaga 120
 gctatatgtt aaccttttgg cattgttaat ttgatttttag gaagtcgtat acttatcttc 180

<210> 18092
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-D10

 <400> 18092

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 gtgcacgtgc tggacgcggc gacggggcgg tggcggcgcg gcgcgcccac gcggtcggcg 120
 cgctccttct tcgcgtgcgc cgaggccggc ggcaggatct acgtggcggg gggccacgac 180
 aagcacaaga acgcgtcaa gacggccgag gcctacgacg cggaggccga cgcttgggac 240

ccgctccccg acatgtcggg ggagcgcgac gagtgcgacg ggatggccac cgtggccggc 300
gaccgggttcc tgggcgtcag cgggt 325

<210> 18093
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-023-Q1-E1-D11
<400> 18093

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aaaattgctc tggctttcta taagatttta tcgcacaaa ggtgccagt atgtacaatg 120
tgctaggcta gtacactatc cagatggccc tttctcctag agaatcctac cattctagtc 180
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aaacaataat ccaacgccc gtgtccatag ctgttcgttt cctcccaaac caatttccga 300
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<210> 18094
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB84-023-Q1-E1-D12
<400> 18094

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aagagaagcg caggaggccc cagcactagc gccgccccgc cgcgcgcatca gacatggcgc 120
tggccgctcg cctcgtctcg cgctcccgtc agctatatctc ggttcaagcc actttgggga 180
atggaggtgt cactcaagtt cgctcctttg ccaaggatgc agctccagct gaccgtcctc 240
ctgtcagtgg ggatgatctc ctgaagggca tattctttga ggtaaagaag aagtttgaga 300
cagctcttgg ggttcttaac aaggaaaaga 330

<210> 18095
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D3

<400> 18095

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ggcagtgatt acagcgactg tatgttggag gggcatcttg ggaaatacaa ttacggtggt 120
aatacatttg aagcatcagg ctacacctct ggtgctagtt attccaagtg cagggctctt 180
gcagttagag ctcttaaagt tgatgagcca gcatgcacac acatgaaatg cacatttggt 240
ggtgtgtgga atggtggtgg tggagatgga caaaacaatc tttttgtggc ctcttttttc 300
ttcgataggg ctgccgaggc tggttttgtg gacccaaaag catcagtttc taaggttaaa 360
ccttc 365

<210> 18096

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D4

<400> 18096

ccaaacttcg gctcgctca gatgcttcgc cagcgccagg gccaccagtc tactgcatca 60
tcatcatcat cagcttgggc tattaccaca gctacgatcc gtcgccacct gtctactgca 120
tcatcctgtt ccagcccgcg gctgctcatc aagcataggg cgacagcggc atcggcaccg 180
gcaccggcac cggcaccggc acagaatgag aaagaggtcg tcttcgtggc tggcgccacc 240
ggaagagttg ggtcccgggc cgtaagggac ctcatgaagc ttggcttctt tgtgctcgct 300
gcc 303

<210> 18097

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D5

<400> 18097

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ggcgaattcc ggtcactgcc aagaagccat cggctctctc aaccggatgc tgtgcgacgg 120

agcaaggccg gatcacctga cggtcacccg cgctctgacg gtttgcagct acgccggcat 180
 ggtggagctc gggaagggcc tgtaccgcgc catgcacgaa gaacacggca tcgagccgag 240
 gctggagcat tgcgcatgca tgggtgcatth gcttggccga cccggctggc tcgccgaggg 300
 cttatgactt catcaaaggc catgccccct ggagcctgac tgccgtcctt tggggggcgt 360
 ttgcgggggg c 371

<210> 18098

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D6

<400> 18098

aaccacgcg tccgaggccg cggcctcct ccgctgcggc aagagctgcc ggcttcgctg 60
 gatgaactac ctccgcccg acctcaagcg cggcaacttc acggacgacg acgacgaggt 120
 catcatcaag ctccacgccc tgctcggcaa caagtaagca ctcagtctca gtctcggccc 180
 cgcccgccgg taccattatt tccctctctc tcgactcaat cattttccca tcgtcggccg 240
 gcccgtcgcg cgcaggtggg cgctcatcgc ggggcagctg ccggggcgca cggacaacga 300
 gatcaagaac tactggaaca cgcacatcaa gcgcaagctg ctgaccgcg gcacgaccc 360
 gcaaacgcac cgccggctga gcgcggcg cgccctcac cgcc 404

<210> 18099

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D7

<400> 18099

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 atagcgatgc caagcagcag cgggtgggaga gggcgccgct tcagggtcgc gtccatggcc 120
 acccagaagg gccagaagcc gacgcccaag accgtctccg gcacgagaag atcgggcacg 180
 acgacgggtg tcccgggtgg cgagccgggc ccgcggccgg cgacgacgag cggcaaagcg 240
 ccggttaagc tgctgacgaa cgtggagaag ctgcggctgc tgaccaacgc ggagcgcgcg 300

ggcctcctgt ccgcggcgga gcgcgcgggg ctgtcgtgt ccgcgatgga gccgctgggc 360

<210> 18100

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E1

<400> 18100

ggcttcctcg gggattggtg ccggtcgggt gactgctccg acgcggggctc ggggtgtgtgc 60

tggtgggtggg tttgcttcat tgtcgtgcat tgcgtaggg aaggagccgt tatcaacact 120

gcgagccaga attaacatga acggcagcta tactottaca cgaacatcga cacacaccta 180

cagtgctaata gccaacggcg gggaaacgct gttcaagttt ctgagcagtg accgtgatcc 240

gcgcgggcagc agtaaacactg gccttgcgta cggtttggtc gtcccaacct tcaagccgat 300

actaatgcat cgagctatga ttagcaat 328

<210> 18101

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E10

<400> 18101

acggacgcgt gggcaaakat ggcgaccacg gcgtttctac ccccgcccaa gctgccgctg 60

caggggcgctc ggttcgctag ccccaaaacg gcgggacgta tcagtgtcag ggtccctccg 120

gcgccagcgc aacaagagca gcaggtgaaa gaggaggagg ccgacgcggc gagcgtgccg 180

ccgccgcagg ccgcggataa ggacgcgagg aagggggacg cgcagtcctt gccgcggcag 240

cctttggcgg agagcaagaa catgagccac gactacaggg ggcagtggct gaacaacagc 300

acgcgacacg tccgcatcta agctgcgtag atcgacccgg ttaccaacgc g 351

<210> 18102

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E12

<400> 18102

cggaacgctg ggcggccatg agtccatgac acactcctgc tcgcggtggg ggtgctcatc 60
ccggcgctgt tcctgctcgt gccctcgcg caggaggggt acatctcaga cgaccacgac 120
gtgttcgctg ctgaaatcaa agttggtttc actttggaaa agccagtgtc attccttact 180
tctcacatag acaaactagg gaatgccata tttgaagaga ttggtgtacc taatagcaag 240
gtatcatcgt ttcaatgcac ccattagctt ttaaatactc cacacatgtt gtttttggtg 300
ttcttcctta tccaaaagat gtttcaataa gtttgccagc tccaagtgtg t 351

<210> 18103

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E2

<400> 18103

tggaacagct gggctctagg gattaatagg attggccaaa ctcggaata cgtgctttat 60
gaccagttca attcaatgtt tggtcacac agcaatccgt gatgaatact tccttggtga 120
ttatgcacaa attatatgcc gggctactcc attcggactg aatggctcgac ttgccttgac 180
gtttggagaa ctgttgagga gattaagcga taccgatcgg gaaccagttc caccacagca 240
gttcaaggaa taacttgcac gttttgctcc gcaacttggg ggctttaatc aacacgattc 300
atatgcactt cgtgcttttt taccgatgg tctccaat 338

<210> 18104

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E3

<400> 18104

tccgcccacg cgtccgctgg ctaaagcaaa attccatgtc agctacaggg gcagaacact 60
gaccgatgct ttacagcagg ttctttctaa taacttgcgc tatttcttga ggcggccgac 120
aacagaggac gccagcttct agccagatag atgatcatga agcctcccaa ctttcttatg 180
tggtggtatt cacatgaatt gaataccatc gtcaaagcat ttgaaacacg cacaataatt 240

tgttaagatg gggggaattg tacttgatgt tatggcacca caccaattcg aagtattttt 300
 tgttccaagg catgggaatc tgttg 325

<210> 18105
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E6

<400> 18105

cccgggccga atgatacatc gactcaccat atcacaggca gctcgagaga gagagagaga 60
 gaaagatgtc gtgggttcggg caccatcacc acaccagcc gggtcccccg gcgtcaggcc 120
 ccaaccaggt gttcaagatc ttctgccgcg ccaacgagaa ctactgctg accgtccgcg 180
 acggcacctg cgtgctggcc ccggtcaacc ccaaggacga ccaccagcac tgggtacaagg 240
 acatgcgctt cagcaccggt gtcaaggacg aggaaggcat gccggcgctc gcgctcgta 300
 agaaagccac cgggctcgca atcaagcact ccgcgggc 338

<210> 18106
 <211> 401
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-E7

<400> 18106

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 ggcggcgatg gcggcctcca tgatctctc gtcagctctg gcgggtggcg ctcagggcct 120
 gccgccccctc ggccgcccgc cctcctcctt cgccgtcgtc tgctccaaga agaagatcaa 180
 gaccgacaag ccctacggga ttgggggtgg cctgaccgtc gacgtcgacg ccaacgggag 240
 aaagggcaag ggcaaggcg tgtaccagtt cgtcgacaag tacggcgcg aacgtcgacg 300
 atacagccca atctacaacg aggatcactg gtctcccacc ggcgacgtct acgtcggtgg 360
 aatcactggg cttctgatct gggccggtca cctcgctggg a 401

<210> 18107
 <211> 278

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-E8

 <400> 18107

 agcgaggagt tcgtgattgc gtccaaggac gacgaggctg tggacgcctg agcgagcatc 60
 cacgcgccag catgcaagca gcgtcttata tgggcccggc ccatcacggg gtttcttctt 120
 ttaatctggg actttgttgc tgttggacga atgaattccc ttcgatcggg tagctttaat 180
 ctgtctcggt agtgtgtcgt gttcgtgtag caccatgcca cacaccagcc gtgtgctctg 240
 tcacgtgggg gccactcctg gggctctcctg ctgctgtc 278

<210> 18108
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-F1

 <400> 18108

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 cttgtcacag tgccgctaac taagtactcc acattcccgc acagagctga tgctgactat 120
 ggagcagcca atgtgatgtt gacgcctgct tgccctgaat ctgggtgttat tgctggtgga 180
 gctgtgaggg ttgtgttgga gatggctggg gttgaaaatg ctctgggcaa gcagctgcgc 240
 agcaagaacc ccctgaacaa cggccgagcc actatcaggg cgacgcagat gatgaagcag 300
 ttcaaggatg tcgctgagga ggtggtattc caatggagga gctgtggaaa tgataaaaac 360
 aattcgaaac caagggcccc cctttttagt cattaattct cct 403

<210> 18109
 <211> 246
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-F10

 <400> 18109

 ggacgcccgg cgaaaccaac gtacaggag aggagcagac gaagctggac gtcctgtcca 60
 acgaggtgtt cgtcaacgcc ctcgtcagca acggtcgcac ctgcgtccct gtgtccgatg 120

aggacgacga aacaacgttc gtggacccta agctgcggtgg aaggtactgc gtctgccttg 180
atccccctcta tcgctcctcc aacatctact gtggcgctctc catcggaacg atctttggga 240
tttaca 246

<210> 18110
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F11

<400> 18110

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tttcgtccac aacaagttct ccatgtgcc tgggcacgcg acacatgttc ggggtggtgg 120
gcattaccgt cacctccctc acgtcccgtg ccgcgcgggc cgaggtctgc ttctctgcct 180
tccgcaacga gcagtccgcg gggtagcccg ccgcctacga ctctctgacg ggctccccgg 240
gcgcctcct catcgctctcc ggcccaagat acatccacgg gctcgccggc ctctcccacg 300
ccaccgcaa cgctggtcg ctcccatga gtcgggatt ctgcgaccag gctgacgccg 360
gc 362

<210> 18111
<211> 222
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F12

<400> 18111

cgcgtcagcc cgagcgctccg caccggccg tggcggaggc cgcagtgggtg gggcggcccg 60
acgagtactg gggcgagatg ccgtgcgcat tcgtgacgct cagggagggc gcggccggca 120
gcgttcgcgc cgatgaggtg gtggggttct gccaaagcgc cctgccgcgg tacatggcgc 180
cccggaccgt ggtgttctg ggccaatctg ccgaatacag cc 222

<210> 18112
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F3

<400> 18112

gtcatgtgtt gttcggagcg ggcagcagca cacagcccca tcccaatcct agtcgatctt 60
cttccccctcc tcaaggaaga aaagaagctg aaccatgggg aagagaaagt cagctgctaa 120
gccacctcct aagaagcgga tggacaagct tgacactgtc ttttctgcc cattctgcaa 180
ccacgggagt agtgttgagt gccgaattga catgaagaat ctgattggcg aagcatcttg 240
tagaatctgt caggaaaact tcagcacaac tgttaatgca ctactgagc ctattgatat 300
atatagttaa tggattgatg agtgtgagcg tgtcaacact gttgaaggcg acgatgatgc 360
gtgagcttgc cccatgtgat gaaactgtta ccctacaatc gta 403

<210> 18113

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F4

<400> 18113

gaaaccggca agcccgggcg gtccgtcgtc cggatccgcg gcgtcaccga cgacgccgcc 60
gccgccttcg tccgctcct ctactcccgg caggtgtcgc gaggatcagt atgacgacct 120
tgaggagcac gccgtgcacg tgccggtgcc tggcgcacgc gtatcaagtg ccctggctga 180
aacgggcggt cgagggcgcc a 201

<210> 18114

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F5

<400> 18114

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tccttgctcc tcgtcttggc tctcctggcc gccgcggcgt cggcggactc gtggctgtac 120
gagaagttca cgacggaggg caacgtgcgc gcggactaca acgcgcaggg gcagcaggtg 180
acgtctctga tcttgacgca gcagtccggc ggcgcttca gctcgcggca gaagtacctg 240

tacggggagt tcagcatcca gatgaggctg atccccgggca actccgcggg caccgtgacc 300
 tccttctacc tgtcgtcggg cgacggggccc gggcacgacg agattgacat ggggttcattg 360
 ggcaacccca gccggcagcc cgtgg 385

<210> 18115
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F6

<400> 18115

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 taatgccttc ctggaagggt ttaatgaact cattccacgg gagctgatat ctatcttcaa 120
 cgacaaagag cttgaacttc tgattagcgg tcttccagat attgacttgg acgatttgaa 180
 agcagataca gaatattctg gctacagcat agcctctcca gtcattccagt ggttctggga 240
 aatcgttcag gggttcagga aggaagacaa agccccggttc ctccagttcg tcaactggcac 300
 ttcaaaggta gcgttgggag gttttattgc acttcaaggg atctctgggc cac 353

<210> 18116
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F7

<400> 18116

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 gttcgatccc aaggctactg gtggtgactg gaggaagaag cttgagaccc agcgggggtgc 120
 tgtgcttgcc actgagctca agaacaatgc caacaagctt gcacgctgga ctgcccaggc 180
 gctgcttgcc ggcgcagaca tgatgaagtt gggttatgtg tcacggctgc acccaccgca 240
 ccagtacaac cattccattc tcagtgtgat cgggtacaag ccaagggatt tcgctgcaca 300
 gatcaatctc aacaccgcaa atatgtgggg gatcgtgaag tctattgtgg atgtctgcat 360
 gaagcctgga gaaggga 377

<210> 18117
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G1

<400> 18117

tcagagtctc atacacactt ctaatctggc cgggaaaact gacattggaa cgtatcagta 60
 tcacgggtcac gtcagttgac taatgtgtga ctgtgagcgc gtgtgacagc ttttacgtac 120
 acgggatcgc tgaaaaggat acgtatatag ctcgctatac ggtcggcccc cgtaaagaag 180
 gaaaatatgc tcggctcacg agcgctcttg cttcttgctt aagcctgtct tcgcttggtg 240
 gccgtagcag tatagtttta ccggacacac ggcttatgga tgtc 284

<210> 18118
 <211> 258
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G10

<400> 18118

gggccggggc acgcgtccaa agcaaactta gccaccaagg caccaaccaa gagccatggc 60
 atccccgttc tgcgcgctg ccgcccgttg ccgcctcgcc gtccccgcc cgtctcctcc 120
 cgccgcacgg gcgcctaagc cccgacgcgg gctgctggcg gtgcgcgcgg aagccggcgg 180
 tgggataaaa ccggccatcc ggaaggacgg ggggaaagtg gttgacaacg ttctcaacgg 240
 cggagctcgc caagccgc 258

<210> 18119
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G11

<400> 18119

acggacgcgt gggcggacgc gtgggccagt ccaaacaaca atgtccttgc tgctaattgca 60
 tgccagttta agaatgtcgt tgctattgta gaccctccac gtgttggcct tcaccctact 120
 gtgatcaagg cattgacgac gcatccacgt attccacgtc tagtgtacat ttcttgcaac 180

cctgacagtc tagtcgccaa cgggatcgag ctttgcacac gaacacccga gaaacaagag 240
aagaacaaac ggcacccatg gtggccgtct aagaacaccg cgggtcttgc tcggcagaag 300
gacaagtcca atcgcaactc tgaagctttt taccccaaga gggcaatggc ggtcactttg 360
gtccctgaca caccgccact tccgaaaagg gtttag 395

<210> 18120
<211> 303
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G12

<400> 18120

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cgatgttcat cacgggggtct atgactatcg ctatgatgat accaaggagg tttacattgc 120
aattcataat gctcttctag aagttcgtaa tcctgttgat gtccccttca acgtcactgt 180
gtgccaaagg tctactatta gttctgcgct aaaccgcatg ctatacttca taaaaacctt 240
cctgtctact gaacagtctt ttgaccacat atttgtatcc ataaacctgt cagtcattca 300
cga 303

<210> 18121
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G2

<400> 18121

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ccgactacta ccacggcggc agggccatgt actccaacac tgacgagtgc tatgacgccg 120
gcaggcacgg cggcagcgtg agggcgctact cgcgcaccga cgagtactac gacaacgtgg 180
acgaccgcat gaggaggccc gcgtacggcg cccacgactg cggctacggc cgcacgcaga 240
ccgccgtgta cgccgacgag tactcccgc 269

<210> 18122
<211> 226

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G3

<400> 18122

ttggattgtc aaccgacagg ggtccttttc aaaagagaaa gcatatgtga cgggacttga 60
agctggtaat agggtagtaa acgattttga cattggggac ttgccaataa taattgcact 120
tgacggagat cagccccata tacagacatt gcgaagtcct caatgaagag ccaatgaact 180
gaagctcaca aattccattc ccagaattct ttccccaata attttg 226

<210> 18123
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G7

<400> 18123

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cctctccacc gccccatcca tcagcagtcg cgcattcctg aacagcggtc atggcctcag 120
agctgccgtc atcggagttc cattgcactc ctctcagcac acggcacgac agcacgcata 180
gggactcctc gcactatcac ctcatgaaag catctcggca gccaacgggtg agagcagccg 240
tccgcgtcaa gagctcgcag tggagggcat taagaacgac ggcgggtggcc gcggtcgcac 300
gacctgcgcg ccgcccacc 319

<210> 18124
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G8

<400> 18124

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tgtcccgacc ccgaccgatc ctgccttgct gcagccatgg cgacctccgc ggcgctctcc 120
accgccgcca atcccaccca gctctaccgg tccgcgcgtt tgctgggcaa gccgggtgaag 180
gggcttggcc tgagcatggg ccgcgagcgc gccagcggga gcattgtgtg ccacgcggcg 240

agcagcatct cgcgcgaccg cgtcccccgc atggagaagc ggaagctgat gaacctcctc 300
ctcctcggcg ccatctcctt gcccaccgtc ggcatggtcg tcccctacgg gg 352

<210> 18125
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H1

<400> 18125

gcgtcaacga gaatgaagat aagagttctg gtaaccctca gtctgggaaa gctttgtatg 60
acttcacagc aggcggtgat gatgagctga gtttaaactc tggagaagaa gtggagattg 120
aatacgaggt cgatggttgg tatatatgta agaaaaggag gcctgcaagg gatggaaaga 180
tggcaggtct ggttcctggt ctgtatgtga gttcatgata acagccgtgt gtatcgtttc 240
ccacacttgt gggagctggt tggagttcat gggcttaaca aaaaggcaca ctggaatgct 300
cccgagagat cttcgcataa actcgtgccc gtcgtatagg cacgtggcct tgtggaagc 359

<210> 18126
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H10

<400> 18126

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gcaccgagaa gatggggaag cggatggatcc cgctggaggc caaccggac gtcctgaacc 120
agttcatatg ggggctggga gtccacgagg aggatgtgca gttctgcgac gtctacggcc 180
ttgacgatga gctgctcgt atggtgcccc agcccggtct cgcgctcctc ttcctctacg 240
cgctcacctc gctggacgag gagaaagaag aatcaagtgt ttctgctgcc acatcgacct 300
cagcaggcaa cgaattgagc aagaaagtat acgttacgaa gcagactggt gggaatg 357

<210> 18127
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H11

<400> 18127

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gtgtcggcga ggaacccccct gatgagcagg aacctggaga ggaatggcag gatcacctgc 120
atgacgtttc cccgggactg gctgaggagg gacctgagcg tcatcggtt cgggctcatc 180
ggctggatgg ggccgtccag cgtcccgccc atcaacggca acagcctcac ggggctcttc 240
ttctccagca tcggccagga gctggcccac ttcccacgc ccccgcccgt cacctcgcag 300
ttctggctgt ggccagtgc ctggcacctg ggc 333

<210> 18128

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H12

<400> 18128

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ggggcaagca tggatagcca gtgagccagc cttcataatc ttcttggttt tcgacgtctt 120
ggctctcttc atctcgctcg cggtcgtcgt ggtccagacg tctctgatcg tcgtcgaaca 180
gaaggccaag aagaagatgg tcttcgtgat aaacaagctg atgtggctcg cgtgcctctg 240
catctcggcg gccttcatag cgctgacctc cgtcgtcgtg ggccgagacg acgagtggct 300
ggcctggtgt acgatggcga tcggcacctg catcatggtg gccactctgg gttcaatgtg 360
ctactgcatt gtcgctcaca agatggaa 388

<210> 18129

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H2

<400> 18129

gggtccaccc acacgtccgg gaagctgttg aagcctcaaa aggtttccag attattccca 60
cgtgcttggt caaccgaaat ctggagtctt ggaagtgcac cgattgcaac caactctact 120

gggaggggac tcagtaccac aatgcagtcc aaagggttctt gtcagtgtgc aacattagtg 180
 actaagcagc acggccttgg tactcatttg taaaattgta aggtactgag ataccatcac 240
 cttcgaaaaga tcgaacataa tctgatcttt ggcatccaat cgtgcacgat gaggcattgca 300
 atccattttt agtggtttgc tgttcgtcac tgagatgctg ttgtaaggaa aatagac 357

<210> 18130
 <211> 280
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H4

<400> 18130

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 gttgttgaat ccaatgcaga tatttgagct aagtgttct caggcacctg aagttggatt 120
 acaactattc cacaatgtga aacacttcag aatccttggt tgtggtgggg atggaactgt 180
 agcatgggtt cttgatgcta ttgacaagca gaactacgag tctcctcccc ctggtcgcca 240
 ttcctcctct cgggaaactgg aaatgaccgt accacgtgtt 280

<210> 18131
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H5

<400> 18131

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 actcttcagg ggagaatcct ttagttcttc cataccgatt ggtaatgggc ctatggtaga 120
 ccaactagaa cgttatggtc catcccttgt aacccttaca aaaccggtgc ttgcacttag 180
 gacagcttgg ttctgcaaca ggtgtatatt cgactcttgt tacgtatttg gtccgtgttc 240
 cacaggtttt attgggtttc attcgacacc tacgtgatga caatgggcct atggaagcat 300
 agcgcaaaca gatgtctctg aaggccccac acggtgtctg ttactgatta ttccatccga 360
 ctgccttgcc gtgttcaga 379

<210> 18132
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H6

<400> 18132

gctttgtggc ggcgacagc ggctgcagct agagccgggc agcgggacgc gcacccctgcc 60
atcgctcctcg tccggccagc tgcacactgt gatccaatac aatggctagc gatggctgaa 120
gacctagatg atgatgatca tgatgatgga cctgaggcat cgttgtaagc ttgttgatga 180
acatctacat gacagtaatg taccatgaat gctatgaatg tttcctagtg gacttgcccc 240
gtaatgtttt gtgatcttgt gaac 264

<210> 18133
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H7

<400> 18133

aggggagtcg tggataccaa atacaagccc agagggcggt caccttttgg ttttagtggt 60
gagaaccaag acggctttac cgagttgaac agaggaccaa ggtctggtgg tttcaagcac 120
caaaaacaat tcggtcctac tgtaactatt gctgtgaagg gccaaagcct cccttcagtg 180
gggaaacaga acagtgtctt tccagacaaa ggccaattta accaggaagg gtttccttta 240
acctacaagg atgcaaagtt ctttgttatc aaatcatata gtgaggatga tgtgcacaag 300
agtataaaat acaatgtgtg ggctagcact cctaattgaa ataagaagct ggatgctggg 360
taccgagagg ctcacgagag atccaatgac tgccccgtgt tcattgtttt 410

<210> 18134
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-H9

<400> 18134

acccaagcgt ccgcaagaat gccagtgaac acagtgagat agccgatata gcgaagtcac 60

taaagagaaa ggccaaggaa tttagaaaga acgaggccca ggagagtgtc atagctgaat 120
catatatcgc aagtaatgat gaattgcggc aaaaaaagaa aaagaaatca actaagtcca 180
agtagcccta atcctcatgc ataatgacac tggcaattga gaaggattgc atgagccatc 240
cctataatta tgtcattcat gctgtgatcg tattagatga tgaaacaaaa ttcgaacctt 300
ccgctggtct gttgttgcaa cagttcatat gcaatagggt tttaatgggt aaaaaaacgc 360
aaaaaaaagg gggg 374

<210> 18135

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A10

<400> 18135

acagcaatcc acacaagcac ttcgacgtcg cacgggcgct gcacacagac acaccaagcg 60
tcggcaccaa tggcttacta ccaggagggtg gactactgct cggaggaggt gaggtcgggtg 120
gccccggccg gcttcggccg ccacggaggc ggcgtccagc agcacgtcgt caaggagaag 180
ttcgaggagg tcgacacggt ctacgcgcc ggcgcccaacc accaccacca ccaccatggt 240
caccacggcg gccacggctt cgtggtgcgc gagaccaggg tcgaggagga catcaacacc 300
tgcaccggcg aggtccacga gcgcaggag agcttcctcg ccagggctaa ctgagccggc 360
cggcggggcg caatcacgcc cggtccgtgc ctgcc 395

<210> 18136

<211> 81

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A11

<400> 18136

acggacgcgt gggcggacgc gtggcgctg caatggtgaa gaacagcgga caattatcct 60
ggaaactgac gggttatgtgc c 81

<210> 18137

<211> 385

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-024-Q1-E1-A12
 <400> 18137
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 ccaagagact gcccaagaca gtgaacacaa caattcttcc ttgccgattg aaccctggta 120
 cggtaagtaa ttacatcat ggtacaaact ggaaccagtg cgcgctcacg tgcacccgaa 180
 cacctagata tccgcagcgg tggccgggtgg gcggtggcgc ctccaccccc tcaattgccg 240
 ggcacaaagt tgggtggcata ggcccatgcg ttgttgttga cggggtcggc gaggtggtcg 300
 gcgaggttct cgagcggggc cttgccgggtg acgatggcct ggacgaagaa cccgaacatg 360
 gagaacatgg ccaagcgggc gttcc 385

<210> 18138
 <211> 359
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-024-Q1-E1-A4
 <400> 18138
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 cagctgcccg tgccggccat ggcgcgcgcc ccgagctcgt ggacgccgtc cctcgccatg 120
 gtgctcctcg tcgtggccgc cgcggccgtg gtcgcgtcgt cggaggcggc caaggtgccc 180
 gccgccgtcg gcaactggac gggggaggag ctgctcgggg ccgccgcgat gcggggcggc 240
 cggcgctccc ggcgccgcgc gttcgagaac ggctcgggc ggacgccgca catgggggtg 300
 aatagctgga accacttcgg ctgcgggatc aacgaaaacc tcatcaagca gacagctga 359

<210> 18139
 <211> 211
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-024-Q1-E1-A5
 <400> 18139
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acgcacccag cgcacagcga tggcgctcgct cacgcatgat ggcgctccttc gccgcccgtgg 120
 ccgtggccgc gccctcgcgc gacggcacct tcgccgtgggt caggctccgcc tcggctcgacc 180
 gctgcgagga gcacgccagg ttggcacgtg c 211

<210> 18140
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A6

<400> 18140

aacacgtccc tgtcgtctct catggcgctcc agcccaatcc cgacgccgcc accgccgctc 60
 ccgaagacca gcggcagagc gctctccgtc gcgcctcgcg gctccgcgtc gtccctcgtcg 120
 ccgtccactt cctcgactcc tcatccggtg gcggcgctcgg cgggcaggag ggggctgctg 180
 gcgctggggc ccgggttcct ggccctcgcc gcgctgctgt ccccgccggg cgacgccggc 240
 gccacgcgca tcgagtacta cgcgacggtc ggggacaaga tgtgcgacct gagcctcgtc 300
 aagtccggcc tcgctactg cgacgtcgag gtcggcaccg gcgtctagcc cccgcgcggc 360
 gagctcatca atgtgcacta caccgcgaga tttcccg 397

<210> 18141
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A7

<400> 18141

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 cgaagaccag cggcagagcg ctctccgtcg cgcctcgcg ctccgcgtcg tcctcgtcgc 120
 cgtccacttc ctcgactcct catccggtgg cggcgctcggc gggcatgagg gggctgctgg 180
 cgctggggcg ccgggttcctg gcctcgcccg cgctgctgtc cccggcgggc gacgccggcg 240
 ccacgcgcat cgagtactac gcgacggtcg gggacaacat gtgcgacctg agcctcgtea 300
 a 301

<210> 18142
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-A8

<400> 18142

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agaaattccc tgcattccaga ccgtttggta tcaagtacaa gtttcactta gaggatgctg 120
ttgattgccc agaatgggtt gttccattcc atctcttcaa attattggca gaggagtatg 180
atctcgagct ggttctgatg aagaactttc atgaatttgt acacgagtac ttgcaaaaac 240
cagagttcgc cgagctgatg cggaggctgg gtgccctcgg tgatggaagg caggaccaaa 300
gtacactgtc acaagatgag tgggaggttt cctatctcta tctcgcgttt gtcctgcgga 360
agcgaggcca accgcctacc caacgaag 388

<210> 18143
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B10

<400> 18143

accacgcgt ccgcggacgc gtgggtcttc acgagcgatt gcggcggcgg aagtaagagg 60
cgatggggca ctccaacgtg tggaactcgc accccaagaa ctacggggcc ggatcccgcg 120
tctgccgggt ctgtgcgaac cctcatggac tgatcaggaa gtacgggctg atgtgctgca 180
ggcagtgtt ccgcagcaac gccaaaggaca ttggcttcat caagtaccgc tgaagtcagc 240
tgggcgggct atctgaatgc catctcttgg acagtgtagt agaggcgatg ccacaatttt 300
aattactgtc atttagatgt tcccttcaga actctgctat ttaagtccgc catgtttgtg 360
atggagaact taag 374

<210> 18144
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B12

<400> 18144

aacggacgcg tgggcggaagc cgtgggagcg gagaagcgcc caacccaacc cgccgttcct 60
cctccaaagc gccctcctgc cccgcaaaat ggagacctct ttcttgccca ccacactccc 120
caacacaagg cctctccccg cgctccgaac ctacgccccca gccgcctcga tccgttccca 180
acagcgccct cgtcgctcca ccatacgcg agccatcacc cggggccgga aggatgagac 240
ggtgaccacc gtccgggagc aactggaggg gtgctacctc ctggcgggta acaagtacga 300
gggcctgaac gtgaagcagc tgcaggaat ccgcgaagcg ct 342

<210> 18145

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B3

<400> 18145

ccctaaggta ttggcacctc ggtccagaga agactactta cagctgaaac aaagattaca 60
gtggttcact ttaggcattg gtggcggttg tgtaatctct gcttataatt catacactcc 120
tgaaattgct gtcagctttg gtgcagggtt gattggatca ttggtgtatc tccgcatgct 180
tggaaccagt atagattccc tagcagggtg aactggacaa actgtccaga gtgctgctgc 240
acaaccagg ttg 253

<210> 18146

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B4

<400> 18146

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gcggaatacta cggcggtcgc gatcagcgct acagcggcgg gtactacggc ggcgggtggca 120
tcgcaacgcc ggggtacgct ccggcggtcc cgtacgggat gtcgcagggt aacatcgagg 180
gcaacgggtg cgggcgggcg ctgccgccgc agccgaccgt gaaggtgtac tgccgcgcca 240
acccaacta cgccatgagc gtccgcgacg ggaacgtggt gctggccccg gccagaccca 300

ccgactagta ccagcactgg a

321

<210> 18147

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B5

<400> 18147

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atagcgcagg tttcatatga gctgaatgtc ttgggtactc ggggccctag gcggatgaac 120
tgtgttatgc actccatccc tacctcgtgc cttgaggctg gtggcagtgt tcccagccag 180
ctggacagca tccttgctcg ctccactgat gagtcatttg gcagcatttc cttctccaaa 240
tcattctgttg tggaacggtc tatgcgtttc agcagctcaa gattctccga catctcaatg 300
atcagcagcc gcaggattgg agacacggca tccggagaca atgatgagtg caaggag 357

<210> 18148

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B6

<400> 18148

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tgacgatagc atgcgtctgt gcttagttta catcgaccgc ttacagcagg cagccattga 120
cattgattga tgagcacaca tcgatcatga gcatacgccg gctggtgcaa ctactacacg 180
cctacgatct gaacaagtag agtacagaga agaccacact gttcactcga cggacggacg 240
aacgaatgga tggatctgac ggtagtacac atgtacggcg ttgctcagtc agttagttgc 300
cggggacgaa gttcgtggcg tatgcccagg cgttggtggc gacgggggtcg gcgacc 356

<210> 18149

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B7

<400> 18149

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gcaccaccgc gccgcgccc aagcaggcaag caccactgac ccaccaggcc accaccccac 120
cgcttcgagc cgagggagaa ggccgcgcgg ggccggcgcg tcaggctctga gatgaggggc 180
ggatccagac tggcctcggt cgccctgttt ctctcgcgtg catccgggat ctgtgcccag 240
ttcaccgcag tgctagctgg tgatcctcac acattcaacg acgataagaa ggctgaagct 300
cagcctaggg gccatactgg 320

<210> 18150

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C10

<400> 18150

agcccaggcg tccgcggact cgtgggcagg ttcgtggggc gcctcgtcgc agttgaagca 60
ctccaacttc gaggcagttc atcactgcc a gggcggttctc tcgctcgagt ctggtcacac 120
gcatgcccag ccgagctcat gcgtccctct cccgcgggtgc ctggcttcgt cgagtctcgc 180
ctccagtcag gccacgccc tgttacgcac acgagcccgc cccagtcctc atcttgctat 240
ggatggtcag cggaagtctc tccccttctt g 271

<210> 18151

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C11

<400> 18151

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acggcagcgt ctccgtggc atagacgagg tcacctactt cccagcaag tacaacatgg 120
agatgtctc caaggcgtac aaagcctgga acttcacgga ccttgctctt cccaacgatc 180
tcacaaagag aggtctggcg aaaggagatc caaagaagcc agagacgctg gagctggcga 240
taaaggacta cccgtacgcg gtggacgggc tcgacatgtg ggccggcgatc aagaagtggg 300

tggtgacta ctgcgccatc tactacgccg acgacggcgc cgtggcgaag gacagcgagc 360

tgcaagggtt gtggag 376

<210> 18152

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-024-Q1-E1-C3

<400> 18152

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tgattgcaac aactgagcat gangaggcaa ctataatagc agaaattgac tactcactga 120

ttgagcagag gaggcaatth cttcctctgc aacaccaacg ccgtggcgat ctctatcagc 180

tggttgatgt ccagaggctg ggttctcatt agcacaggga cgaagcanga gaggcattga 240

ctctgcaggc ttgctcgtac tacttcgttc atgagatgca tgcccatgcc catcgagaga 300

<210> 18153

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C5

<400> 18153

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attacaatgt cagacctctt ggctgggaag tcttctctca aggagttccg tgggattgca 180

tttgttggtg gtttcagcta tgcagatgtg ctggattcag cgaaaggctg ggctgcatca 240

atcaggttta accaaccctt cattcagcaa ttccaggact tctaccatag gccagacacg 300

tttagccttg gagtgtgcaa tggttgtcag cttatggctc ttcttggctg ggtgccagga 360

tcaggtgttg gaggttct 378

<210> 18154

<211> 179

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C7

<400> 18154

ctgctctctc cctcctcctc tctgctctgc tctggaccgt taactctcca gctccccctc 60
gctccgttcc cttccgcccc aatcactggg accaccaccg ccttcttcaa gatcggcggg 120
cgggcaccgg cggcgatga catccaccgt caccacaacc gtctggtccg gggggcgcc 179

<210> 18155

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C8

<400> 18155

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ctctgacgag ctcaaggaag cacatcgcca tgtgcctgtc cccagggcca agcggcgggc 120
gcggcacatcg cgggggccag agggcgcggc ttgcgagtac aggcgcagct cctcaggttc 180
gcgcgctggc gccgacgacc gcggcagaag aagcagcggg tccctcccc gccctctca 240
acgtggagta cctggccgct gagttcgccg gccacggcgt cagcttcgag cccgtggggc 300
tcagctgcgc cgtcaagatg tcgctgcgca acggcaccgt ggcgcacgtg ctgctcccca 360
gcgggctcgt cacgtcttac aagcccgcca 390

<210> 18156

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C9

<400> 18156

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atcaacgaga cgtagacaag gctctaccga gtatcgagga ggaagctgaa cgcgtattcc 120
aggatgaccg aagtgttact tcatgaatat ggagctgctt cagcatgaga tactatgtat 180
gaatatacga gacgttgttg agcatgcact gcgatcgatg atacaagacc ttcaatccac 240

caggcagact atgagcgccta ctcattggctcg tgagctctag tccgcggcac gtacgccacc 300
 atttggtggt gccg 314

<210> 18157
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D1

<400> 18157

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 cgttaccgct ccagctcccc ctgctccgt tcccttaacgc tcagttcgct gggaacacca 120
 ccgccttctt caagatcggc gggcgggcac tcgccggcga tcacatcgat cgtcaccata 180
 accctccggg tgcggggggc tccccgtccg cccg 214

<210> 18158
 <211> 160
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D11

<400> 18158

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 tgagcgagac gaagatgac atctgaatac atcttctcca ggactaggaa ggcttggtga 120
 gtgctcatag ggagcaggtt gaagcgactc tggacatcct 160

<210> 18159
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D12

<400> 18159

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 ttgttggggg tctggcttca aatgttaccg aggtcgaatt cagaaggtagc tttgagcaat 120
 tcggtgtgat aaccgatgtg gtggtgatgt atgaccacaa tacgcagagg cccaggggct 180

ttggtttcat cacatatgac tcagaagacg cagtggataa ggcactgcac aagaacttcc 240
atgagctcaa tggtaaaatg gttgaggtca agagggctgt accaaaggag cagtctcctg 300
gacctattgc acgttcacct gcacgggggc agaactatgc tatgagcagg gttcataact 360
tcgaacatgg ttttacca 378

<210> 18160
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D3

<400> 18160

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atctccgtca agggcatcaa gggccgcctc aaccgcctcc cgtccgcctg tgtcggcgac 180
atggtcatgg ccaccgtaaa gaacggaaag cccgacctca ggaagaaagt gatgcccgcc 240
gtcatcgtcc gccagcgcaa gccgtggcgt cgcaaggacg gtgtctacat gtacttcgaa 300
gataatgccg gagtgattgt gaatcccaag ggtgagatga aaggttctgc aatcactgga 360
cct 363

<210> 18161
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D5

<400> 18161

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agcccaaatt gaagcttctc tactacaaaa caatatgttg ggtccagcta cgttatttag 120
tgcagggggc gtatatagct actatgtatt ccctttcttc tataatgaat aagattcaaa 180
ggttcacagt ttgtcctaaa ataaataata ttttacacaa atatgaaaga ttgtctccta 240
atatggaagt taatcatagg tgcttgcaag caataactgt caaatccaag agatatcctc 300
tacaaaagga aaggagataa ggatacagct tcttttgcca acgttcctaa tataatctgaa 360

aatttccagg aacttgttta tt

382

<210> 18162

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D7

<400> 18162

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gacacgagcg agatcgatgt gtacttcaac cccaagccgt tcgaagtccg ctgctgatac 120
ctgcttcgtc cttggctcac gactcagtt ttcctgggtc cgatgcccac ggccgcgccc 180
tccctgctcc atttcgcatg tgcgcgcgct cggctccagt cctgccgcga gcgcggtgct 240
cgggtcccat cttcggcgcg aagcacctg tggccgcgcg gctactctc caagtagagc 300
tccgtccatg gccgcgggtc gagctctcc cag 333

<210> 18163

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-D8

<400> 18163

ctgtggtgat catgtcgtct gagaatgtgc ctgcccgat cagcaggtgc ttgcaagacg 60
gcgcggagga gttcttctg aagcccgtga agctggccga catgaagaag ctcaagtcgc 120
acctgctgaa acggaagcag cccaaggagg cgcaggcgca ggcgaggcg caggcgagc 180
agggacaggc ggtggagctg gagcctgagc agcagctgga cccgcgcacg cagccggcg 240
acgacgcgga ggaaaccgcg gcagagccgc cgccggccgc atccaacgga accaccgatg 300
gcggcaacaa gaggaaggcg gcagccatgg aagatgacgg gatgctggcc gtgatgaccg 360
tggccgcgcc ggacagcagc 380

<210> 18164

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E10

<400> 18164

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aaactcacca cctcccaatg gagaacggcg acgaaaccct cgcctcccc acggccgccc 120
ccgagacgga cgcgctcaac ggcggcgctcg cggaggagga gcagggtccc atcaccacc 180
ccgcaaagtc ctacgtcacg ctcgcccgac gacaaccccg ctctaacgg cggcgctcgtg 240
aaggaggagg agg 253

<210> 18165

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E11

<400> 18165

acgccacagt gctggccatg cctggagccg ttgcgcttgc gccacgctc gcggcagcga 60
gcagctccgc cgccgcggcc tccacgttgg ctccgaacc gacaagccga ggcgacccgc 120
taactattag gttgtgccgc aatgctcctg ctacgcgaac tccacttggt ccacttgtag 180
ccaccgctcg ctacgtgcgt ggctgccgcg gcgcggctct agtcgccagt cccaccacg 240
ctccaaacc tcgcctccga ttgcgctctg cggcagaggg gatggctgcg gaagcgagca 300
cggctggtgc ggcgttcgca gccgaggcga agcccttcgc cgtcctctc gtgtgcct 358

<210> 18166

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E4

<400> 18166

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ctccccgagg ctcggtaatc agactgttgc agacgctgtt ggggactggt actttggtag 120
aagacgggta gtgaagcagg tcgactgcga gtacccttgc aacccacgt gtagcattca 180
gtatgtgtga gctggcttct ccttcgtgac cgccattgca ccgagctgag gttcatggga 240

gtccttggtt cctccactcc cgtacttgag gtgtccttgg ttacaaatca gttttatatt 300
aatccagaga acgatacctg aatgttaccg acaatacgta caaggtgtgt gtaaacc 357

<210> 18167
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E5

<400> 18167

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gcctccacca tggcgatctc ctccacggcg atggccggta ccccatcaa ggtgggctcc 120
ttcggcgagg gccgcatcac catgcgcaag accgtgggca agcccaagggt ggccggcgtcc 180
ggcagccctt ggtaacggccc cgaccgcgtc aagtacctcg gccccttctc cggcgagccc 240
ccgagctacc tcaccggcga gttccccggc gactacggct gggacaccgc cgggctgtcc 300
gccgaccccg agaccttcgc caagaaccgc gagctggagg tgatccactc ccgctgggccc 360
atgctcggcg cgctcggctg cgttctcccc gagctgcgct cccgcaaagg ggtctaattt 420
gggg 424

<210> 18168
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E6

<400> 18168

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ctgcttcctt gtcctctgtc tctgctgcag tctgctccag tccctttttt cttgtcccgc 120
atccatggtg cagcttttgc cggcgctggg ggcgctcgcc cttctcctcg gcagaccggt 180
ggcggatgcg gcgatggcga aatacacgtt cacagtaact cgctctcttc ctctctctct 240
ctctctctgt gtgtgtgtgt ctgtgtctct cgctcacttc tatctctatg cagagtc 297

<210> 18169
<211> 380
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E7

<400> 18169

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gcatacacaga gcacaatcac caccgttctg aagatccttc caaaacctcc tgctgctccg 120
gagagcagaa gcaataattg tgcttttggg gccaaattcg acagtaggag ggcacttcta 180
tgctggcttgg tcgctgctgc tgctgctgct ggcaccatgc tgggcgctga catcgctggt 240
gctgcttcga agaggcggcc tccaccgcca gcgcggcag aggcgaagaa agaccgatc 300
tgtctgccga gtgcaggcta aagtgttgc tagcacgaag aggaagacg ccataagga 360
agctgtggcc aagctgaggg 380

<210> 18170

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-E8

<400> 18170

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accatgatat tgggttcgat gccatcaatt ttgaagcatc tcaagagttg aaaaagaatg 120
tctctgcggc aattacagga cagatgagaa aggacaagga agacatgtat atccattcag 180
aatgttcagt aagttacaat gctcagagag gctgctcctt gatggggggg atggatatgc 240
agacggcaag caaagatttg gtctgtactg ttcattggga tgccaagtgc cacaatctgc 300
cttggaacag tagtggaggt ggcatttctg ttactaagtt tggcaacaag tactttgctg 360
gggctaagtt agaagactcc gttaccattg ggagacgag 399

<210> 18171

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F10

<400> 18171

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 ctggggcgag atgccgtgcg cattcgtgac gctcagggag ggcgcggccg gcagcgtgcg 120
 cgccgaggag gtggtggcgt tctgccaggc gcgcctgccg cggtagatgg cgtcccgac 180
 ggtggtgttc gtggccgagc tgccaagac agccacgggg aaggtgcaga agttcgcgt 240
 ccgggagcaa ggcatggcca tgggcagcat ctccagctcc gagcagcatg atggggcagg 300
 gacgaggagc aagctctgat ctgaactcgc atgccacat ggatg 345

<210> 18172
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F11

<400> 18172
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 ctagcgctta tagcttgtca gccatggcca ccgccgccgc gtctagcctc ctcaagtcct 120
 ccttcgctgg cctccggctc ccggccgcca cgcggaccac accggcgctc ctctgtggtgg 180
 ccaccggccc gcgcggcgcc ggccgggggc ccatctgcgc gtccatgtcc atgtcctcct 240
 ccaaccggcc ctacgacctg acgtccttcc gggtcagccc catcaaggag tccatcgtgt 300
 cccgcgagat gaccgcgcgc tacatgacgg gcatgatcac ctacgccgac accgacgtcg 360
 tcatcgttgg cg 372

<210> 18173
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F12

<400> 18173
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 taaaggactt tgtttggact tgatgcattg tttcctttgt gtattggtgt gcggcatgga 120
 ccaggaatgt tatacatctg aatatatggc tgttttcatt ttttaggcag t 171

<210> 18174

<211> 320
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F3

 <400> 18174

 cacttttcgac gccacaaca acgtgtccgt catcatccag cccacctcca agaagacatc 60
 acgagtaggc tccccgagga gttcctctcg caggctgact acttgctcgg caagcatgcc 120
 tactgcgga agaccgactc cgatggcggg ttcgagaccg acgccgtggc caccgccaac 180
 gtgctggaga gctccacccc cgtggtggac ggcaagcagt actacagcat caccgtgctg 240
 accaggacgg cggacggcga ccatggcggc aagcaccagc tcatcaccgc catcgtctcc 300
 gaccgcaagc tctacatctg 320

<210> 18175
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F4

 <400> 18175

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 ccaagacaat gtattttcaa gtctctcagg agctcgtata gtgcgaattg ctgtccatcc 120
 tagcgccttg aggcttgggt atggctcagc tgccattggc cttctatctc ggtactatga 180
 agggcaaatg agaagattat ttgatgacga tgaggaggaa acggaagagc ctgatgtgaa 240
 gattactgaa gctgcagaga aggcttcact gctagaagag accataaaac ctagggcaaa 300
 tcttccacca ctcttgttc atcttcatga acgtcgtcct gagaagctcc attatcttgg 360
 tgtatctttt ggacctgacc aagagcttt 389

<210> 18176
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F5

 <400> 18176

acgcgcccgc accatcacct tcgcagccct agccgcccgc tccattgctg ctatacccgc 60
aaccatgggt cccgtgctga agcgcggcag cccgggcacg gtgcagtgtt tcgggcgcaa 120
gaagacggcc gtggccgtgg cctacacgaa gccaggccgg gggatgatca aggtgaacgg 180
cgtcccgatc gagctgctcc gtcccagat gctgcccgtc aaggccatgg agcccgtgct 240
gctggcgggg cgggtccaggt tcaaggacat cgacatgcgg atccgcgtgc gcggcggcgg 300
gaagacgtcg cagatctacg ccatccgcca ggccgtcgcc aagggtctcg tggcatacta 360
ccagaagtac gtcgacg 377

<210> 18177
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F6

<400> 18177

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aagcatgtgg aaagagcatc gcacgatctg aaatcagtca tcacaacgta tgagggaag 120
cacaaccatg aagttccagc agccagaaat agtgggcaag gcagttccag cgctccatct 180
gcatcacaag ctggtgggtc tcaccgtagg caagaacctg cacaggccag ctttgctcac 240
ttcggtagcg cttctttcag ctcggtcggt ctcccaccga gtggtcagtt gggaccaaca 300
actggcaatt tcggcttcgg gatgggtccc ccaggcatga cgattccagt gccctctcta 360
ggatcgcttg cccctgtaaa gatgggtgga aattcatcag ctatgcacgg gtagcaag 418

<210> 18178
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-F7

<400> 18178

aactctacct ttccattact gttatctctt cataatctct cctctcatgt atcctgtttc 60
tctaccttct agaacaattt ggctatcaga tatcaaatta gatcgtcttc ctgcgt 116

<210> 18179

<211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F8

 <400> 18179

 ctcaaattct agccaaagtt cactgcttga gtgtgcagtc cttatgtact gctggtataa 60
 cccctccct agcccaggtt tgccccttc tccccatgga ctggatgcgc tcagtgacct 120
 ctccccctgc ctatttattc agtgtgttcc acggctgagt tcagaaaagc ttttctccct 180
 tgtttctgag ctgtagtccc agtccactac aaagggtgtg gagtcctggt attcttgctg 240
 gtgtgcatcc tctctttcag ccaccaagtt tgttttactc tagagctgaa tgccaacctc 300
 ttgcctgtgg tgaccaaacc caaccgtttt tcacctcccc gtggacaagg tttcccaaa 360
 gtattcttgg tcgtgtacta cttgttccat gc 392

<210> 18180
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-F9

 <400> 18180

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 tctcggtccc ggcacagttg aacggcacc actgaagctg ctactgctct tgaaaagaag 120
 ggcacagtgc agatctgcta gagatgatga gagaagcagc aatcaagtgt agctgttgct 180
 cgtagacctg ctgtgctgtt gctgtttgca aagctgccgt cttgactccg cctggtaagt 240
 agtgtactga tagccaggta tagaggtag gttagggtgt agcgacgcaa agcctttccc 300
 tgtttttctt cgccctct 318

<210> 18181
 <211> 323
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-024-Q1-E1-G10

 <400> 18181

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aagcagccaa cgcgcacggg ttcacgcgcg cgctgcccga cggctacgac accgtcgtgg 120
gcgagagagg gacccggctg tcgggcgggc agaagcagcg cgtcgccatc gcacgggccg 180
tcgttaatga ccccaggctg ctgctgctgg acgaggccac gagcgcgctg gacgtggagt 240
cgggccgctg ggttcaggag gccctagacc gggatgatgg tgggaggacc accgtgggtg 300
tggegcacgc cctgtccacg atc 323

<210> 18182
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G11

<400> 18182

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tggtttgggg ttgtcactgg ggattgatat ccttgaagca cctggagcaa ctggagatta 120
ccgtactctc ttaacttcta aagctaaagc tatagccaag gcattatctg cccctatggg 180
tacaccacct cgtgtttttg tgcttgaga ggatgaatac aaagctggaa aagaaaatgg 240
atatgacttt gggttcctgc acataaaggc cattgatgat gctggatcatg ataaggctgt 300
caagttaaag gtacggggtc tagaagctgt tgatcgagct attggtcagc ttgcaaggct 360
tctttgggaa gctgaaaat 379

<210> 18183
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G12

<400> 18183

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ttgcgcgcgc ctacaccgtg gaggtcggca gctgccagtt cccctacaac ttactgggt 180
gccaggacct cgccaagcag aagaaagtcc ccttcacag cgacgacctc gagattgagt 240

gcgaggggaa ggagaagttc aagtgcggct caaacgtttt ctgggaaatg gtgaagcaag 300
 ctagcagcag cgtctgatgg gaatggagga gatcatcacc tgtcttgtcg accctagata 360
 tgtccaaact gcagggaaat taaatcttca agtg 394

<210> 18184
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G2

<400> 18184

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 caaggggctc aacaaggtga acatgctcgg ggtgcgcaag accgccgact actccttcgc 120
 caaggctcgtg gcgtcgtcga gccccgcggg caggaagcgg cgccggcgcg cgttcggcgc 180
 ccagatgaac gccgccgccg agatcttcag gatcgccgcc accatgaacg gcctcgtgct 240
 cgtcggcgct gccgtcgggt tcgtgctgct ccgggtggag gccgccgtcg aggagtccga 300
 gtacggtgcc 310

<210> 18185
 <211> 138
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G4

<400> 18185

ctttgtatga aaaaccaag aatttccaga aaggaattat ccaaattggct gctgttgtga 60
 aagctaaacc tagaactgaa ccacggcctg acaaaactga accaaataag gaagcagttg 120
 ggccatcaca attgactg 138

<210> 18186
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G8

<400> 18186

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 caatggctcc ttctccctc cgcccgccgc gccaccacc gtctccctc gtcgtcctcg 120
 ccatcgccgt cctcctcgtc ttgcgcaccg ccgatgggct gccggaggcg ggaggaggag 180
 gaggaggcgg cggctctgtac cgggagattc tcagggacga gaccgtgcag aggctcaagg 240
 agctgggcaa gatatctgat ggggatggct accttgaaag gacgtttctg agtccggcct 300
 ctatcagagc cactgggtgc atcgtcagct ggatgaaaga cgctgggctt acgacgtggg 360
 tcgatcagat ggggaatatt catgggcat atgagccggg aaa 403

<210> 18187
 <211> 174
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G9

<400> 18187

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 atcatgatgc agagtatcgt cctggcagac accctcaagt acctgtacgt acatttcccc 120
 cgtccatcag tcatagccgt cgacgagtgg gttttcaacg ttgacgctca gccca 174

<210> 18188
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H10

<400> 18188

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 gggttctcgg ccgtgctgcc cgccaagggc aggccggcgg cgaggagcag ggtggtggcc 120
 cgtgtccccg ccacaaggag gagcgtccgt gtagctgccg tcgtcgcgac cgaggccgcg 180
 cagatcgact acagctcaag cgtctcgggtg ttcccgatgg aggcctgcga cctgcttggt 240
 ggcgacgcgt gcaacggggc catgttcccc gaggccaaag ccgcctcggc ggccggcgcg 300
 gcgagcagga gtgtggtcgg ggtggacagg gactacctgt cctacgacga gccaaaag 357

<210> 18189

<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H11

<400> 18189

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cccgccttct cgggtctctg cgcgcccgga tctcgcgcc cgctggccgc cagccccggc 120
cccagegtcg tcgtcgtcgc ctctcccaa cttcccgct cgtcgcggag cagcgaacgc 180
aggagagcac caggcctcgc gctcgccgcg gccccgggtg tcggcggtag ggatggcggt 240
ggcaggtgga gagcaggcat ctctccttc ccttctctgc cgcggttctt cacagggaac 300
aagggggaga aggacgtga gaaggcgatg aggctcaagg aggagctcct cgacgccatt 360
gcaccgct 368

<210> 18190
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H12

<400> 18190

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tggcgagtga gacggagacc ttgcatttc aggctgagat caaccagctg ctctcactca 120
tcatcaacac cttctactcc aacaaggaga tcttctccg cgagcttatc tccaactctt 180
ccgatgcgct ggacaagatc aggttcgaga gtctcactga caagagcaag ctcgatgcgc 240
agcctgagct tttcatccac cttgtcccag acaaggccac gaacacgctc tccatcatcg 300
acagcggcat cggcatgacc aagtccgacc ttgtcaaaa cctcgggtac atcgccaggt 360
ccgggaccaa 370

<210> 18191
<211> 91
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H2

<400> 18191

agaccacgcg tccgcggacg cgtgggcttc gactgtacat gagaacaaag actaaggaga 60
gctccattcc cgtacaagga acacacaagc g 91

<210> 18192

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H8

<400> 18192

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ggctttcagg agtactgcaa gacataccca gaaaattatt gcttagccca gcttatctat 120
tggatagcc agaattcaga acctgaatct agattaacaa gagctagaaa aggttgcag 180
tcgttgccag atgtctcatc cttctatgtg aagtctgcaa agccatcaca agagcgagct 240
tatggaaaca gaactgtgag attcatgtta tcgcgcattgg aaaaacaggc acaaagacca 300
tggccaaagg ataggatatg ggtgttcacg agtgatccga gattctttgg t 351

<210> 18193

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H9

<400> 18193

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tggcggcagc ctagcacaga tgatgtgcgc aagagcaagc tcgggccaag atacttcacg 120
gcgtttggcg tggatctgtc ccctgataat atggcagttg ccattgtcta ttttgtgcaa 180
ggggttcttg gtcttgacg gcttgctgtg agcttttact taaaagatga tctccatcta 240
gatccagctg agaccgcagt ggtatctggt ttctcatcct tgccgtggtt gatcaagccc 300
ctctatggct ttatcactga ttccattcca ctctttggat atcggaggat gtcgtaactt 360
tttcggtc 368

<210> 18194

<211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A10

 <400> 18194

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 tgctgggttc gctgtatcag attgtgagag agagcttcca gctctactct gatatctgcg 120
 aggtgctggc ggtgctgctg gacaggttct ttgacatgga gtatgcggag tgcgtgaagg 180
 cttttgaggc atatgctagt gctgcaaagc agattgatga gctctctgca ttctattcat 240
 ggtgtaaaga tactggagtt gcaaggatcat ctgagtaccc agaagtgcaa cgtgtcactg 300
 ataaattgct ggggacgcta gaagagttca tgacggaccg ggcaaagagg cctaagagcc 360
 caccacggga gcctgaacct gagcctgtta a 391

<210> 18195
 <211> 158
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A11

 <400> 18195

 acccacgcgc ccaccacgc gtcagcgtaa ataagaagtt gtctgagatg aaatcagata 60
 atgaaaacaa ggacaaagat gcccaactgc gacgtcagga actgaaggaa gtcataagcaa 120
 agcaacaaga gctgggtttt gaccacctg agctaccg 158

<210> 18196
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A12

 <400> 18196

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 gagatagtcg cttcagctct ggtgctcttc attctacgga aactgcctcc aaagcgtggg 120
 atcacacaat accacccgat ccattagaga gcaggccttg ggaacaggca aagggtttct 180

ggtggatagt gttacacaac gtggtaaata cagaacggag agtgaaaagt accactcgag 240
 ctttgcccag ctttttatac ggaagtcttt agaatcccag gttgaaattg tgtgtaaaaa 300
 tgcgatctct ttcactaaga tttagaaaat gtaacttata atactttgtt attctcagtg 360
 cgtatcatct gttcacattg caaa 384

<210> 18197

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-A2

<400> 18197

agaactgtaa gacgtatagt gatggcagca gccgcaaagc atctgacccc ggtagctctg 60
 gagcttggtg ggaaatcccc tggtatcctg gattcaaattg ttgatctcca tgttgctgca 120
 aagaggattg ttgttgcaa atgggggatgc aacaacggcc aagcatgcat tgctccagat 180
 tacatcataa cgacaaaatc atttgcaccg gagctggtgg cctctttcaa aagagttttg 240
 gaaaggttct atgggggagga tcctctggaa tcagcagact tgtctcgtat tgtgaattcg 300
 aagcagttca aaagatttga caaatttga 329

<210> 18198

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-A4

<400> 18198

gtccaggagt gttgaccgta ggaactttgt acacatagaa tacttggtga ggagagggaa 60
 gaagcagctt gagcagctca agaatcctga tattactgga ctgctaccc ttgtactaaa 120
 gaaatgaggt ccattcattg ccagaacaaa gtatcatcat gataccggtg tttctaattg 180
 gaagatttgg aacctgccac tgatggtgtc caaataaaat aaatatgacc acagattaca 240
 gatttgatat ccagcgactt tctaatacgc ctattagaat ctgaagataa atcttgtagc 300
 acctgtccgg tgagccatag taatattatt ttactcttgc 340

<210> 18199

<211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A6

 <400> 18199

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 ctgggtgacc gccggcgccc caggcctgag gcctccatct tcgggccctt cactggctac 120
 gagcaccacc agaggattat ggattggctg gggcagaagc gcgaggagat gctgatgcag 180
 gtgctgctgg tggcgtctgc tgtggcgggc ttcttggtgg gctacgtgcg cgcggaactc 240
 cagctcatgc tgctcgteta cgccggcggc gtcgtgctca cagcgctcgt caccgtcccc 300
 aactggccct tcttcaaccg taaccgctc aagtggctcg acgcttgccg agggccaccg 360
 cccaacgggc cccaaagtgc accccggtgt cggacccagg gggg 404

<210> 18200
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A8

 <400> 18200

 gctagtagct tgcaggccga ggaaagggtc aagcttaggc agtgtatctg atgagaaagc 60
 cagacttgag gaacttaaga agcaacggga gctagctgct gctaccaaag aagaggagaa 120
 aaagaagagg gaggaagcga aggccgcggc agcagcccgg gtacaagcaa agcttgatgc 180
 caagaagggg aaggggaagg gaaagggaaa atagatcgtg acgttgctgc tgactattgt 240
 tgtaaccaag aaataattgt gggagcgtcc tcaaattgct ccgtcacttg ctgttgctgg 300
 ctactgtgct tgatgttgta gcggactgat gtatcgataa gagctaagta taaataatgt 360
 ctggtatcta cattacc 377

<210> 18201
 <211> 175
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-A9

<400> 18201

gatggatcaa cccgtcgtgc gtgggtctcgt tttgtgatga gtgggagaga gaggatgaca 60
agatcgatcc tttgttaatg gagatctcgt taattaggag agctaccgct gggacttggt 120
ggtttgtaat atatgatcca accagtgatg aatcaatgca ttcacttggtg tacac 175

<210> 18202

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-B11

<400> 18202

ctcaaggcag ccagcagcgg agggaggaac cctagcggaa caggtgacgg cggcgcgcta 60
ccggtgacgg gggatacggc ggcacgtcc cctcctccat cccggcgcg gcgcgccag 120
cagccggcct gcaggctgtt tgaagagctc gccatttaat ctcaatggaa gccaagtttt 180
tccgtttcct gaagctcgtt ggggt 205

<210> 18203

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-B12

<400> 18203

cccacggacg cgtgagcggg cgcgtggggg ggcattgcca tagaaggccc agatttcaga 60
accaagagtg aagaagagct tactcaactg ataccaaaga tacaggtgag ttcattagtt 120
gtagtactca tctttgcacg ctttttttgt atcctggtag gtcattcatc agtgatcact 180
gtgatttgct atggatgtgg caggtgatgg caagatcttc gccactggat aagcataccc 240
ttgtcaagca tcttcgaact aaactctacg aagttgtggc tgtgactggg gacggggacaa 300
acgatgcacc tgctcttcat gaagctgata atgggcttgc aatgggcatt gctggaaccg 360
aggttggcaa agagaatgct gacgtcatca ttcttgatga caacttctcc aatattgtca 420
ctgttgcaaa atgggg 436

<210> 18204

<211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-B6

 <400> 18204

 acccacgCGT cGccccacgc gTccgcccac gCGtccgaag tGcgagcgac cCacgtccac 60
 acgacacgaa cCaccaccac caaccagcag cGgcaccacg cAcccagcgc aaagcGatgg 120
 cGtcgctcac catgatggcg tCcttcgccg cCGtggcggt gGccgcgccc tGcgcccgcg 180
 gCaccttcgc cGtggtcagg tCcgcCaagg tGgaccgctg cCaggagccc gCcacgctag 240
 cagcaaccga cGccaggccc gCcgccgacg gacgcgcgc cGtcatgctc gCggctgctg 300
 cGgCGggCGt gGcagccaac gGcgGcgccc gGgCGccat g 341

<210> 18205
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-B8

 <400> 18205

 aagTccccct cGtccgctc tCaccaccg cTtctatate gCcacctctc tGttgtaga 60
 agaagacact gaggatctgg cTttctggaa tCacatttct tGagaactat cTttggaga 120
 actaaactag gCtcttgTtc atattatgga tCagcaagct aagattgatg cTgattttct 180
 tgaaccaact gTactcttag atgagacaca tTaccaggag gGgtacaaaa atggctataa 240
 tGatggtttg gCatctggaa aggaagaggg gaggcagggt gGtttaaaga tGggtttcca 300
 gGtcggtgaa gaactgggtt tCtttcaggg cTgtctggat gTgtgggCGt cTgcaat 357

<210> 18206
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-B9

 <400> 18206

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ccggcggtaca tcgeggcggt gcgcgccag tacctgggcc gctgggtctg cggcctctgc 120
gccgaggcgg tgggcgacga gatccggcgc gaggggacca tcaccacggc cgacgcgctc 180
gaccgccacg tcgcgttcgc gcgcgcgccg cgctcccga gggcgcccgc ggaggacgac 240
ctcgtggcgg ccgtggcgcg gctgctccgc cgctgcctcg actcgccgc cgcgtcgct 300
gcgcgcgccg cacag 315

<210> 18207
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C10

<400> 18207

attcacggac cgaccacgg cccagttaa gggcacatc acgacatcac gtagctactt 60
caaaaggagg aggatatgta agcttcatag gagatgatcg catgcaaacc agtgtatgta 120
tatggagtat atcgatctaa tgctttaggg ctcgttcggt ggcggttcca gctaaatatt 180
gtattaacat tgattagcta gaacagtttc tagcctcagc ccaagctaaa tttgaagtga 240
agactttagg taaaacagaa atgcaactat aacacaactg ggttaatttt acattcgctc 300
ggatgctgag atgtccaatt ttcaatagtg atgtaagtaa agagcaccga taatcttttt 360
ccataaaaat tctctagaaa tgtgtcaaaa aaaaaaaaaa aaggcggccg ct 412

<210> 18208
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C11

<400> 18208

acgaggtgat ccgtgttgtt ccaagaccaa cagttcttgc cgacttgagt tttgaggaaa 60
taaaagggtgt gtttgagcaa ttgccagagg cagttagctt gcttgcccttg gcacgaacag 120
cacatggtac aagggccagg tattcaagat tgtacagaac cttagccagc aaagtgacgg 180
ccttgaaaga gactgttgca gagatggaga gaggtggtgt tttcaaagat gtacgataaa 240
tgctgtgtta ttgtacagtt acttatgata ttgatgttgt atatggatgc catttgctcg 300

catcccttgt aactgtactt gcttttacta tgtggaaacc tatgttgtaa cactattctt 360
 tggcaagaga 370

<210> 18209
 <211> 319
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C2

<400> 18209

cccacgcatc cgccaactcc gacgacgccg tgggtgactc cgccgacgac cgcctcatcc 60
 gcggcgcgcc catggacagg cactacagct tctggaaggg cgccgacgac ctgcctctca 120
 actcctacct ctggtgggtc gccggggaca aaatccagat cctgaggggc gccgacaacg 180
 acccgagcaa tgacatcgtg gagatgaagt ccgaggacgc ctaccggctg gtgctgcacc 240
 aggtgggtccg gtggctggag cgcaacgtgg accccggcaa gtcgcgggtg ttcttctca 300
 acgcttcgcc gacgcacac 319

<210> 18210
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C7

<400> 18210

cttctacgcy ctgatcaagt ccaacgagac gttcctcatc accatcaacg cggccggctg 60
 cgtgatcgag accgtctacg tggatcatgta cttcgtctac gcgaccaaga agggcaggat 120
 gttcaccgcc aaaatcatgc tctcctcaa cgtcggcgcc ttcgggtcca tctcctct 180
 cacccttctc ctcttcaagg gtgacaagcg cgtcgtcatg cttggctgga tctgcgtcgg 240
 cttctccgtc agcgtcttcg tcgcgccgct cagcatcatg aggcgggtga tccagaccaa 300
 gagcgtggag tacatgcctt tctcctctc cctctcgtc agcctcagcg ccgtcgtctg 360

<210> 18211
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C8

<400> 18211

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ctagttgaga atgcaggaaa aatgggttcta ctagataaat tgctgcccac gctaaaggag 120
cgtgattcca gaggcctaata tttttcacag atgaccaggc ttttgatat cttggaagat 180
tatcttacgt atagagggtta tcagtattgt cgaattgacg gaaatacagg tggagaagat 240
cgtgatgcat ccattgaagc cttcaataag ccaggaagtg aaaagtttgt tttcttactt 300
tcaactatgg caggtggcct tggatatca 328

<210> 18212

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-C9

<400> 18212

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cttaatatgt tcaaaggtaa agtcagtgtg gcagatatga tagttatctc gccttctgaa 120
gtaacatcat caaaatatga tggaactctg aaatactggg aaagttccat tacccttgtc 180
gacattctta aaaatgagat ccgtgatggg cagtttagct tcaggggcaa acgggttcta 240
aagcttggat gtggatatcg cctctctggg a 271

<210> 18213

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-D10

<400> 18213

agcgcggcgc gtcgggttcg aggtcgtcat cggggacccg cccttcaacg tcgacgtcgg 60
ggagttcgcc aaggaggtga acgccgtgga cgtgctggtg ggcgtgcacg gcgccgggct 120
caccaactcg ctgttcctcc ccacgggcgc cgtcttcacg cagatcaacc cgtacggcaa 180
gatggagcac atcggggagg tggacttcgg catccccgcc gtggacatgg ggctcaagta 240

catcgccctac tccgccggcg tccaggagac caccctgggtg gacacgctgg ggcgcgacca 300
 cccggccgctc aaggaccccg agtccatcca ccggagtggg tgggggaaag tggccgagta 360
 ctacctcggc aagcacgacg tccggctcca cctccaac 398

<210> 18214
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-D5

<400> 18214

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 aaatatgaac ttaggtaagg ctgcattgat cactgtcggg ggacttgcag ctggtgcaac 120
 tgtcggatct gcagtggaaa atttcctgca ggttgatata gtgccctttc taggcatcca 180
 ctcccccgcc gtcgttgtca gtgaatttat tctgtttctcc cagttgttgg tatcactggt 240
 tgttacgtac gatctgaaat caagctgtca tctgatcat ggcattgtaag taactgaaat 300
 ggttcgtgtt caaacttcac agggtcacgg aaatgcctat tttccgctca 350

<210> 18215
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-E10

<400> 18215

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 caacatctcc gagcgcgccg gagacgccgt cgaccccgac atcgcgttcc agctcttcga 180
 cgacgacatg gtggccgaga agcccgtgcg ctccacggct gccgtctacg cgcgcgagaa 240
 catcgccac agcctcgtec accggggaac agtagcagcg ccgcccgcgg cccaggttc 300
 gccttcaagt gaactctgac agctggagca aggagaaaca cctcgctttc tcg 353

<210> 18216
 <211> 315
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-E8

<400> 18216

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ggacggggat ttggacgaag caaagcgtct gtacaaggag atgggaagaa aggggcttgt 180

tggggatagc gatttctatt ttatgcttat ttattacctt tgtaacgggtg atgatttggg 240

cactgccctt ggactataca atgaaatagc agctaagaat tgggtgccat gcctctcaac 300

catgaaaatg cctgt 315

<210> 18217

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F10

<400> 18217

ccaaccacg cgtcagcttg gaatgggtgg aggctccatg taccgcatgc aacagggagc 60

aggtgggctg cctgcaggcg catttggtga aggaggaaac taccctcttc caggttcttg 120

tttccgaggc caccacctc aaggtggaat gtctcctcct gggccagggtg gcagggctcc 180

tcctatgtat cccaacgtgc caccttattt ctaaagtgtg tgacaactct tgggagcata 240

tcctttgaaa tggttgtgct gaattcacia gtgttgtctg cttacatgga tgccttgcac 300

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tattaaggga tacatgaagc taggt 385

<210> 18218

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F12

<400> 18218

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gactttctaca cgggcttcga gggcggtgctg acgctggtgg acgtgggagg cggcgtgggc 120
gccacgctgc acgccatcac gtctcgccac ccgcacatct ccgggggtcaa cttcgacctg 180
ccgcacgtca tctccgaggc gcgcgcgttc cccggcgtgc gccacgtggg cggggacatg 240
ttcgcgctcg tgcccgcagg cgacgccatc ctcatgaagt ggatcctcca cgactggagc 300
gacgcgcact gcgccacgt gctcaagaac tgctacgacg cgctgccgga aaatggcaag 360
gtcatcgctg tcgagtgcgt gctgccggtc aacaacgagg gcaaccccaa agggcaaggg 420
gtccttc 427

<210> 18219
<211> 281
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F8

<400> 18219

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gccccttgat ctcatctcct tgteccctggt agggttgggt cagttctatc acaagcttcg 120
ctctgttttt ttttatattc accttcattg agaagattgt agagtaccat aggctgaggg 180
aatagctcgc ttgttgaatc ccagtgtttt agtccggttt agccttagcc atgaatgtaa 240
aaatgttgta aaattgtcac cctgccttac aagtccttcc a 281

<210> 18220
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F9

<400> 18220

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gcgtgggtgcg cgtgtcccag tgcgacgggt cccactgctt cgccgtgacg cgcgccgcg 120
cgggcccgtc ctgcgccgac gtgctccgcg cgatgcagca cgagcccgag gtgatgtgcg 180
aggtgctgaa gcagaggacc gacggcgcca cggccgcgc cctcgcccgg gccttcggcg 240
caatgccgta cctggtgttc gaccccgagg ccgcgtgat gtccggcggc gagagcagcg 300

actcggagcg gtcgggccc ggcgccgagg aggaggaaga cgatgaggag tgggagttca 360
 tgcgcgggct caccgtccga tgacgtgccc ggccgcccgg ccccg 405

<210> 18221

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-G12

<400> 18221

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 ggaggagcgc aacataaagc ttttgatcgc acaaatgcat gttgtcatgg gtcagttaga 120
 cgttgcgctct gagaaactac aaagtcttat aaatgaggat cctcgggatt ttcgggtctca 180
 tctttgccag ggcatttgtt atgcactttt agacagaaaa gaagacgcag atatgcagtt 240
 tgatgtatac agaagccttg tgccggatga attcccagat aagagtttta tcagtgatgt 300
 tatactggcg gctaggacgg agtcacatga tcggctacaa aaggaatttg actctgagtt 360
 tcaagcgaag aaatgatata ttaagttttg tataga 396

<210> 18222

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-G4

<400> 18222

cgteaactgg cgcacacctc ctacttctct ttcttgcccc atctgcctgt tgatcgctgt 60
 ccgtccagc tcgcggatgc tgccgccta ggtgatgctc gtctccctc tcgcacggtt 120
 ggccgggtgg ccctgtgcc gttctcagg ccgtctcagc ttcgtctgat gctgagttcc 180
 tctccagcgc gcggattcct ccctgcgtcg cgcgtgagtt cggcgtcgaa ctccccaacg 240
 cgcaactcac tgagctcgtc cctgcgcgcc atgatcacca gtcgtccgcg cttgctcgga 300
 ttctcgtccc tgcattgcaag ctgtctgtcg ggccaccttc atccccagtt gtgctcgcgc 360
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<210> 18223

<211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-G7

 <400> 18223

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 aataacaagt gggagataaa caggaagagc taggtgaata cttagagaaa aggtcccca 120
 cccccccac gcaggtgaat actacaagta ggagtgtaca aggaagacag ccaatctgcc 180
 cgtgactgcg agtgaattgc tacggtgtgg tggtagttg aaaacttgag gtcacgatga 240
 tgggagggcg gctgatgatg gatcagagcg tgggttccc tggcgccac aacttcgtgg 300
 atctcttgca gcagaacggc gaccagaacc tggggttcgc ctcaatcatg ccgc 354

<210> 18224
 <211> 232
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-G8

 <400> 18224

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 cgcgaccgct ctgcgagcc gcggcgcggt cgtcgccctc gagtccacca tcatctgcca 120
 cggatatgccc taccgaaga atctccagat ggccatggag gtggaggcca tcatcaggga 180
 taacggggct atccctgcaa ccagagccgt cgtggacgga gtccctcacg tc 232

<210> 18225
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-G9

 <400> 18225

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 aaacatggtc cgggccgttg tttgatccag cagctctcgg gcagtcgagg cggaagaagc 120
 aaactaccct agatgctaag gctgctgctt actcaaagca gtcctaaaag gaaaaggag 180

ggatacgagc ccgataacaa aatgtcgttt tcttgggtgag catgtggagg gaccgtggga 240
aaggttcacg gcctacggat gaattttctt gttttgttcc tctgggtggtt ggaaacaggc 300
aacaatgcgc tgctgtaggg tgaatcttc eggattgtgt acatgtcatg tggtaacggt 360
tccaagtact gtttacatgc ttctgaacaa gctgccgtca cccggacggg accttagggg 420
ttttagaac 429

<210> 18226

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H12

<400> 18226

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agtcgcctct cagccgccgc aggcccttgc cgcggcccct tacggctacg gcagcgacct 120
gctcaggccc atcgacacac agacgatcat cacaccctcc gccgtcgtat cctcaatcgg 180
cctcgctcgc gtcttcggcc tcaacggcca cacggtgccg tgcgacaggt gcgctgggaa 240
tggggggcacg aaatgtgtgt tctgcaatga tggcacggta actgttgaaa ctccactcgt 300
tgagtgccgt gtatgcacac gaccacggct aatactttgc aagaagtgtg ctggttctgg 360
atactccaag cggttgtacc ggaatccccg tttggctggc attcagtgca gtttt 415

<210> 18227

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H2

<400> 18227

accgcccgt ccaaccagtc cagatagatc tttccccgt cctccctcgc ctctgcctcg 60
tcggcatgag atttcagta ccaacgccgc tcgacaccta cctccttcc ctctgcgct 120
atggcccata ctgttgctgt caagggtggc atgtcctgtg atggctgtgt tggagctgtc 180
aaacgggtcc tgggcaagat tgaaggcgtc gagtccctac acgtagacat catggcaaac 240
aatgtcacccg tgcattggcaa t 261

<210> 18228
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H3

<400> 18228

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agacaccttg aaagatgcta cagaagcatt cccattcacg cgatgggaag cagcttctgt 120
tatgcccattg acagaaattg agattgagaa gcagcctatc caagtaactg aagttgcagt 180
tgtgggcaaa tcggtcatcg aagaggagct gccaagggt catggtgaga cctcaaattg 240
tttgcaagag gcctttgatg atggcataga cgattggttc caggaggctg atcgtgctgg 300
ccaccaact atccacagag gtgacga 327

<210> 18229
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H4

<400> 18229

tattccgagt ctgccggcgc cccaagtgcc cgagctgcc a gtgccgccgg tgcccagagct 60
gccgatgcct caagtgccgc cggatgcctca actgccgggc gtgctgctgc cgcccgccac 120
ggtgccgtag cccgtatgtg cgccttgctg tgatgctgta ccgttccccg tgccgtcctc 180
tcttgtagca ccaccgccgt cgcgtcgtca ccgaccaccg acgagcctac agacgtgcaa 240
atgctgcctg gtacacacgt gctgccgccg acgccctgtc gtgtacctgt gtttacgtac 300
gacttttttg ttgtt 315

<210> 18230
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H5

<400> 18230

accacgcgt ccgccacgc gtccggcagg ataccatcgc cgacgtggtg ctgtcgccgg 60
 aggagatgga gatgtacgtc gacttgcacc ccttcaccaa tacgtcgccg tacacggtgg 120
 tcgagaccat gtctctggcc aaggcgctcg tgctcttcog ggaggtcggc ctgcgccacc 180
 tcctcgctgt gcccaaggcc tgcgataggt cgccggtggt cggcatcttg acgaggcatg 240
 atttcatgcc agagcacatt ctggagctgc accctgtcct tctgaggagc acgtggcaca 300
 tgctccggtg g 311

<210> 18231

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H6

<400> 18231

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 gagggggatt gtccaacatt agtatgcact gatctggcag ctagaggcct gcacctgcat 120
 gttgaccatg tcatcatggt tgacttccca tcgaattcta ttgattacct tcacagaacc 180
 gcgagaactg cacgcatggg 200

<210> 18232

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-H7

<400> 18232

taaacctttc ctagccagca agtttgttgt actccaaagc tgagcgccaa cctccttcca 60
 atggtgataa cgctcatggt tctctctgtc tcctcggtgt caagcatact cgaacatggg 120
 ctcaacgtcg cacaacgccg ccgggaacca cctaatacgc gatcgctcga ttcacgactt 180
 ctccgatcaa aatttatacc acctagaaga agtggtgttt gaacgaggag tctactccag 240
 tggctgctga tcaagtggcg gagccatcta actgggtatt gggtagaaag gtcttgagcc 300
 tcttcaatgc aataaacgca agccccgggt gcattttccc ccttccgtgt aattt 355

<210> 18233

<211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-025-Q1-E1-H9

 <400> 18233

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 acaagtccac aaccgtacca gcaccaccgc gccatggcgt cctccgccga tcccgatgcc 120
 gccacgccac catccgcgcc gcagccggag cccgcacgga aggcagtccg cgtgggtggg 180
 aaggggagcg tcacgggggt ggggttccgc gactggacgg cgtccacggc cgagtcgctc 240
 ggtctcgccg gctgggtccg caaccgccgt gacggcagtg tggaggccct cctctccgga 300
 gaccccgcca agatcgaaga catgataacc cgccgcctcc ccgtcggggc cccagccgc 360
 caccgtc 367

<210> 18234
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-A1

 <400> 18234

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 gtgcatgcgg caataattcg agatgggtccc atgttgggtc ttgtgagggc cctgctatcc 120
 tctcgtgtcc ggtgtcgtat atcagcagca atggcccggtg tgactggata cgtccaggtg 180
 tgccagcgcc gtggtgctct ataagtgtg ttagtccctt gtgggcgtgt gtgttccatc 240
 ggataatcca gtt 253

<210> 18235
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-A10

 <400> 18235

 agaagctagc gttcaacaga ggaagaagcg agagagctga caagaatcga ctgccatcaa 60

tggctctggc gccggcgccct ctccagtgtc tcttcacgag cagcagaccg gccgtatgca 120
 cggcgacgcc gccaataag cgcgcgagga ggccgtcgag gatctcgtgc agggcgctccg 180
 gcgatgacaa ggacaaggtc ccgtcgtcgg gagggagcga tcttggggtc aagcagctcg 240
 ggaagctggc catggtcgcg ctggccgccc gcgtgctggt gtcgggcccc gtcgacggtg 300
 ccgtggcggc caagtcgggc ggcagggctc gcgggcaagg gttccggtec gcgccccggt 360
 cgtccggccc tcggatcaac aactccagga ccaacatcta catcaaccgc 410

<210> 18236
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A11

<400> 18236

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 tacaaggacc aaagcatgca tgcaaatacg tacactactg gtacaatctc tgagcccatg 120
 ctcccttctt cacaataact ggtacatctc ctgcagtaga tatacgaata cgtacgtcta 180
 cggtagatgc atacaagtac gtatacgccct tcgctcactt gccggggacg aagttcgtac 240
 cgtacgtca cgcgttggtg ttgacagggc caccgatgtc gtcggcgagg ttctcaacgg 300
 gacccttgcc gg 312

<210> 18237
 <211> 144
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A2

<400> 18237

gcacgctcgc gcagcagcag caggcggtgc gcgaagtgt gcagtcctatg ctgccccccg 60
 gcgcgcgggc tcaattccgg ccgtgtgtg gcactgacgc agtgggcctg ccagttcaac 120
 gcggcgctga ccgtgcccat cttc 144

<210> 18238
 <211> 351
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A4

<400> 18238

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ttttttttta gatggaataa aagaatgcat ggtaacaaaa acacaattta ggaacttgtc 120

cgtgatgcaa gcgtacagca gcctgggtgc ccctagaccc tcaagtacaa ggaacaaaag 180

cacaactaaa cgacaccgta cagctgcggc aatctagaga atgacctgac ctacaacaga 240

caadaatcag ctatatatgc ccagaatag gggagacaat cgccagacga gggataaaga 300

acatgtaaga acagatatct tagccatcag ggctatttgg accatgcgac t 351

<210> 18239

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A5

<400> 18239

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caataattcg agatgggtccg agtgggggtct tgtgacggcc ctgctatcct ctggtgtcgc 120

gtgtcctata tcagcagcaa tggcccgtgt gactggatac gtcgggtgctg tgcgagcgcc 180

gtggtgctct atagtgtctg ttagtccct tgtggcgttg tgtgttcgat cg 232

<210> 18240

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A6

<400> 18240

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cgccggcgac atcatggtgt tccccaggc cctgcgccac tggcagtaca gcgccggcac 120

cggcgctgcc gtggggctcg tcgccttcag cagccccaac cccggcctgc agatcaccga 180

ctgtgcgctc tttgccaaca acctcccgtc cgccgtcgtg gagaaggctg gcttcttgga 240

cgacgcgcag gtgaagaagc tcaggagtgg gcgcggcggc ggcggttagc gtgtttttcg 300
agacaataca gtgcaggctg ggtatgc 327

<210> 18241

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A7

<400> 18241

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gagaggttcc atgtactaat tatgttacia aataatacga tatataacgc gtagatatat 120
atccaatata tacagatgaa gcctggaacg gtggcactgc tcattttgtt gaacatgatg 180
tgcatagttg cggactttga tcatggaagc tttcctggaa cgagggcgcg gggaaacgag 240
gttgctggca ggtcctatg gaagaaatga aggaaccaag ggcatacatc gtggaagaaa 300
gctgatggac gccggtaggg attcaaaccg tgggttttcc aacag 345

<210> 18242

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A8

<400> 18242

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aggccggcgc gcagatcttc tcggaggggcg ggggggacta cgtgggcaac cccaacctgg 120
tgcacgcgca gagcatcctg gccgtgctcg gcttccaggt catcctcatg ggcggcgctcg 180
agggcttccg catcaacggc cgcgacggcg tcggcgaggg gaagaacctc taccctggcg 240
gccagtactt cgacgcgcgg ggcctcgcg acgaccgct gaccttcgcc gagctcaagg 300
tcaacgagat taagaacggc cgcctcgcca tgttct 336

<210> 18243

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-A9

<400> 18243

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tcgcaaaccg ctctctgttg atttgggatt tgggaggcgc tcgagttttc aggtaaacca 120
tagtttagtg acccatggct cgtactaagc aaactgctcg caagtccact ggagggaagg 180
ctcctaggaa gcaacttgcc accaaggctg cccgtaagtc tgcaccaca actgggggag 240
taaagaagcc tcctcgttac cgccctggaa ctgttgctct tcgtgaaatc cgcaagtatc 300
agaagagcac tgacctgctc ataaggaagc ttccgttcca aaggcttgctc agggagattg 360
cccaggattt caagactgat ctctgtttcc agagccatgc ggtgc 405

<210> 18244

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B1

<400> 18244

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tcagcatcaa ggtcattcaa agacaattgt tgggattcaa aaggaaatgg gtcaccgtgg 180
atctcacgaa caatacacc ttttgatttt agatcctgcg catagaactg cagatctaca 240
aaggtcc 247

<210> 18245

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B11

<400> 18245

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gctgggtgctt gagttcatgt accagaggat ctccgtcagg gcaccagcc tgctgtccag 180

ctccatcttc tgggtctgca gaacagagtt ctgcgcttgc actgccacaa ggttttggct 240
 gggtatactc agtgccatgc tgagctgctt gttctgggcc ttcagctgat ttacctgttt 300
 cagtcgcgaa taatacaccg ctcagatata tgaattcaat cctagcttgt ttctgctatg 360
 tttagacaat tttagt 377

<210> 18246
 <211> 91
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B12

<400> 18246

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 gttgatatcc attaatgtt ttttcttcta t 91

<210> 18247
 <211> 326
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B2

<400> 18247

atctctgatt tacgggatgg acggagcgaa gccagtggcg gccgggaagc aggacctgga 60
 agaggcgctg ctccgtatcg tgcagcagcg gcaccaccag tccctctgcc aacgacaaca 120
 aacgggtacg agcgtgcaaa gaaggacgcc ttgaagagcg cgggtcggggt cgccgatctc 180
 ctctgtggaca cggtcgacgg cggggtgcgg gagctcttcg tcaacgagaa gcgcatcgag 240
 ctcgaggccc gcgcgctgct cggtagcatc gcgcggtgca ggaggcagac tgatgagtgg 300
 ctggcggcca ccagcgagat caactc 326

<210> 18248
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B3

<400> 18248

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 ttgatgggtga tgacatcgta gtgcaggacg gggtagacag cagtgttgct gttggcactt 120
 ccatgggcct tgtggttcct gttatccgag atgctgatac catgaacttt ggtgacattg 180
 agaaagggat aaacaaccgt gcaaaga 207

<210> 18249

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B4

<400> 18249

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 gcttctactc ggtgcacgtg caggagcaga cggagctggt gcagaaggcg ctgcagcgcg 180
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 ccttttgaat ttgatatagt accagtatag agagaacatg ccgtagagtt tatctgtgca 300
 gccatttggg gaaataattg tttcgactct gcagtaccgc atgagacaga ccggtttag 360
 tttgggaaaa ctc 373

<210> 18250

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B5

<400> 18250

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 gagctcaaga acggggcgct cgccatgttc tccatgttcg gattctgcgt ccaggccatc 180
 gtcaccggga agggcccgct cgagaacctc gctgaccaca ttgccgacct cgtcaacaac 240
 aacgcttggg cctacgccac caacttcgtc cccggcaagt gagggaggcg ccgccggtga 300
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actaatgttc aatc

374

<210> 18251

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B6

<400> 18251

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ggcaccaacg ggtacgcgca gagcaacaag ttcttcgtca agccccgctc cacatccggc 180

cgggggtcgg gcggggccca taggccgctg cgctccgacg ccgcgcggcg ggatggcggc 240

gggatgcgca agcccaacaa ggggatgctc gagcacgacc gcaagcggca agtcgagctc 300

aagctgctcg tgctcaggaa cgcgctcgag gagcacggct acaccgaa 348

<210> 18252

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B7

<400> 18252

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ccgcgtcgcc ggcggcccg cgcggagaggt gggggaccgc cgggtaccctg gcggcagctt 120

cgacctgctc gggctcgccg acgaccgga ggcgttcgcc gagctcaagg tgagggacat 180

taagaacggg cgcctcgcta tgttctccat gttcggcttc ggcgtgcagg ctatcgtcac 240

cggcaacggc cggcgcgaga agctcggcga gcacatcggc ggcgcgcgtca ataacaacgc 300

ctgggc 306

<210> 18253

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B8

<400> 18253

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cagcagcctg tectccggga tctctggctc acgggctgca ggggccagca ccgctctgga 120
ccccatgac gcagcgccgc agcagctgac gaggggtgaag gggcgggcg ggggacggct 180
gctgcacgcc ggccgcccgc gttcgagtgt ccggaggatg ccgggcccgc gcgccgtggt 240
ggtgagggcc gggcctgggc cactgtcgcg gatcgagccg ggcctggagg acgacgccat 300
cgacgtgtac cgcataacg gcatcaacc gga 333

<210> 18254

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B9

<400> 18254

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tggcggcctc catgatctcc tcgtcagctc tggcgggtggc gcctcagggc ctgccgcccc 120
tcggccgccc cgctcctcc ttccgctcg tctgtctcaa gaagaagatc aagaccgaca 180
agccctacgg gattgggggt ggcctgaccg tcgacgtcga cgccaacggg agaaagggca 240
agggcaaggg cgtgtaccag ttcgtcgaca agtacggcgc gaacgtcgac ggatacagcc 300
caatctacaa cgaggatgac tgggtctccca ccggcgacgt ctacgtcggg ggaaccactg 360
ggcttctgat ctgggccgtc accctcgctg ggatcctcgg cggcggcgcc ctctcgtct 420
acaaca 426

<210> 18255

<211> 128

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C1

<400> 18255

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gccgttgcat tgcagcacct attgtgtcgt tatcagttcg ttatcaatta tctggcttta 120

agtgtggc

128

<210> 18256

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C12

<400> 18256

cccacgcgtc cgcccacgcg tccgcccacg cgtccgctga gactatccaa tatgaaaaag 60

atcgcaatgc aggttttcta tcaccatttg ggtactcaac acctacagta acatcagcag 120

tagatgctat atgttcaatg gagtgggtatt ggctcttggc atcaaaatcc caagtatgca 180

tcgaggggaa atattctata agaatttggga gatggaaggg ttatcttgta cagtacacct 240

ttcttggcaa cgaaggcca cctgttcttc ttgtgcatgg ttttggagct ttcttgagc 300

attttcgtga caatatacac aagattgctg ctacgggcca ccgagtttgg gcaattactc 360

ttgttggctt tgggaaatca gagaaaccaa atgtcaacta ttcagaactt ttctggtccg 420

<210> 18257

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C2

<400> 18257

gaccgcgcca tggccgcggt cctcggagtc ccccgcgccg gggccccgtt catcctcctc 60

cgcacctcct gtttctctcc gtgggcacct ctggtgcccc gccgtcgact tctctctggg 120

cctgccactg ccggtgatcc cccgcccccg gcgctcgcgc caacttcggg gctcgcgcgc 180

ccgcccgttg tgggaacgcc ggagcccccg ctgccgttta cggccgtgga ggcggagatc 240

cttcgcgata ttgagcccggt cggcgtgggt atcaaggata tctccactc cgacttatac 300

tgg 303

<210> 18258

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C3

<400> 18258

agcaggagag atgcggcggc ggcgggggca cacgtgggcg ggggtgggga agacggccca 60
cgcggcgtct gcgcacgccg cgctcttctg cttgactctg gtcctcgccg tcagggtcga 120
cggacgcacc acagactcct ggtggataat attcattcca ctatggctct ttcattgtag 180
tgttgccggt ggaaggtttt caatgcctgg cccttcatta cctcatgggc gtcattgggc 240
accatgtcat tcga 254

<210> 18259

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C5

<400> 18259

cgcagcagca gcagcagcgg ctgaggctgc ggcggagcag cttcagcatg gtgcggcgcg 60
agcgcgagcg cgcggcgcgg gatgcgtggc tgggccacgc gtgggagatg aagcggagct 120
ggcaccagcg caacggcggc gctcccgacg cgggcacccc cgtgggtggtg gtgggtggga 180
cgtcgtcgtc gtcgtcgtcg cactcggacc atcaggccac cgcggcgggc ggcagggtgg 240
ccatggacgt ggcggaggtc ggcgcgtggc gggacctcgg gctggagctg ccctccgact 300
ggcacgtgga gatccag 317

<210> 18260

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C6

<400> 18260

cacgcgtccg cggacgcgtg ggttggaagc gcttgacacg cagggtgacgg cggcagcgac 60
ggcgctcaga ctccggcttt tagtgacggg atgggcggtt tgcccctccc gcctcttgcc 120
agtcccagcg cgccctcgcc tcgggtcctc tgcacaccgt ccagtgcact tgcgtggtgg 180
actggataaa gttttgcagc gagtttaccg caagtgatgg ggagacagca tgcattgctt 240

gataatctta atcagggggg gccaggggtt cgtacgatt gggatgatggg tttaaactgt 300
cagctgctga taatgatgtg gttgcaactg 330

<210> 18261
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C7

<400> 18261

gaaacacacc ttatgcgcac ggggtcgagg atgcagggtg gaacacgaaa acaggaattc 60
ttgcacaacc agatgatgca aagagggatg tggaaaccgc tcgcaagtcg cctttgcacc 120
caagggctca caaaactaat cctcaagacc aaggtccaag gaaccaccg gatcgaccaa 180
gacctgaact tgacaaccaa cgacactctg accggcgagg gcaccgtgag tctgcaccac 240
gaagacattg ggggcgtcag ggggtgccgg ggagtagcgc tgggacacca agaagccct 300
acagaacagc tgctgggtct gcttc 325

<210> 18262
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C9

<400> 18262

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gctacgggcg gtcgggcgcg gcggcggcgg cggccatgag cagcgggagc gagagcacta 120
ccgccagcag gtggcccgag ctggccacgc tgcgcgccct ggcgcgcgac gccgcggagc 180
agctgcggct gccgcgggccc ggcacgtcgg cgtcggcgtc ggcgtcgtcg tcgccgtggc 240
gcgggcgcga ggaccacctc cagggccacg gcaagacggc caaggtgatg cacctgctgc 300
tctggggacc caagtgaagc ggcgagaggc caccgtaccg ccggcggttg tcgttttgc 360
ctgcctgcaa tccgccccgc acggactgta ctgtactgta cctatacacc tatatact 418

<210> 18263
<211> 324
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D1

<400> 18263

tgttgagaaa tacgaaagtg gaatgtgggt cgagtcttag tcggatattt catactcttt 60

ctcttcttgt ccaaacagat ggaagaggag atgatttgtg ctgaccggaa aatccatata 120

tctcgtagcc atttagagca tacggatcga tttataagaa tcgaatgttg ggtttttatg 180

ttattttgtg atagaatgga aagaattcta gacagaaggg gttgggaatt atgcctacat 240

cacgtattgg tggaggggtc agtgattgga cggtcgcaga ttgtaccaat attttacttc 300

aaataattcc gacaagctcc gggg 324

<210> 18264

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D11

<400> 18264

agcgaaaccg cagccgtgac ggatccagcc gaaccccctc gcagtcgcag cccctcacg 60

ccacgcgaca tgggcaagat caggatgccc gtgccgtccc tgttccgccg ccgctcctcc 120

aagccgccgc gccgcagcc gcagcagcag gcgcctgccg cgggcgacgg cgacggcagc 180

gggtccccgg agcgggcgac ggccgaggag gagatggcgc gcgtgttccg caagtctgac 240

gcgaacggcg acgggcggat ctccgggtcg gagctggcgg cgctgttcga gacctgggc 300

cacggcgcggt cggacgacga ggtggcgcg atgatggccg agggggacgc ggacggcgac 360

ggcttcatca gcctgcccga gtccgcggcc ctcaacgcc aagtgggccg cga 413

<210> 18265

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D12

<400> 18265

cccacgcgtc cgcggacgcg tggggccctc ggcctcagcg agggagggcc gctgttcggg 60

ttcaccaagt cgaacgagct gtctgtgggg cggatggcgc agctgggagt ggccttctcc 120
atcatcggcg agatcatcac ggggaagggc gcgctggcgc agctcaacat cgagacgggg 180
gtgcccatac acgagataga gccgctcgtc atcttcaacg tctcttcttt cttcatcgcc 240
gccatcaacc cgggcaatgg cagggttcac atcggcgagg aagaggaata ggctgctggc 300
tgctgctgct ggcctcggac atgagtcgtg tgcgtttact tttacctgtg actgtgcgtc 360
tcggtgcgcg cgcgtaagtg ct 382

<210> 18266
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D2

<400> 18266
tgcagtttgg agttcgagc ggcgagattc ttctcgatgc aggagagaag tgtaaggagt 60
gtgttgctac gcatggctct ggtgccgcat ggagcactgg tgaagagctc tgggacggtg 120
ccagattcag caagggtcag attcatgttc agaagactaa ttgccgctgc attacatcgc 180
ttgcatcatg t 191

<210> 18267
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D3

<400> 18267
aagccgggga cgccgcccag aggcgtggct atcttcaagc tctcccgcgc cgagctcgtc 60
cgctccggtt cgcatgtccc cgcgcgcgaa aggcgcgcct cggttcagca cgtacgctgt 120
gctggcagcg cacatgttgc cgtgcgcgtc cctgacgcgc ggctgcccgg tgcgaccagc 180
ccaccaagct atactgcgcc accgacgggc cgcatacggg gcagccgccc cttccggagg 240
gctac 245

<210> 18268
<211> 257
<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D4

<400> 18268

gggttgtaag ggatgtttat cggggcaggc ttgtggagga tggctatggc tacggaccaa 60
cagccagcgc ccaggagcac aaggattgca atgtggcagc tgcttgatgg ttgtggttca 120
ctacccgttt ataccacaag aggggtcata ttgtgcatcg gaagaggttg gcggcactag 180
ccgtcatccc tcacctgtat ataaaggcaa tctgggccta tagtgggtgcg atgtgaacat 240
attccaggat ttgctgc 257

<210> 18269

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D5

<400> 18269

cacgatagac tgccaacaag aaaagggcag tgatggcaat acattgccaa caagaaagta 60
cccagtgatg gcaatgtatg gccacgatac acggcaactc agtgaacggc taccaatgac 120
aatcctgata taagacttgg ctttctcatt aatggcacgc ttgttggtgcc aagttgcgct 180
cttatcacco ttcagttggt tctttcttgt tggtcgtacg tgagatttta ttttactga 240
atccgggtct aggtggaggt tttcagtatt gacagatgtc agatgttcaa ctttatgtgg 300
ttatacaacc ggcaacaaca ggcacc 326

<210> 18270

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D6

<400> 18270

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tccctgactc ccctggcttc cccaacgggg ccacgtacca cactttgacg gcaccctaca 120
atgatgtgca ccgcagtgat caaactgttc gaagacaaac ccgtggagat tgcgggcgtc 180

ctcctcgaac cagttgttgg caacgctcgt ttcacccctc cagagacatg gtttccttaa 240
cgctctccgc gacttgacca ggcaggatgg tgcgctccag ggcgctgatg aactgatgac 300
cggcttccgt ctgtcttacg gtggacctc 329

<210> 18271

<211> 210

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D7

<400> 18271

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cgcgatgcac ttcgacaggg tcttttggcg caacgtcgaa gtgctgggaa tggtcggggc 120
gacgccccaa gcgtgtgggt acttcttgaa cctgcacaaa gccagcggca atccggtcct 180
cgcggtacat ggccgccggc aggttcgccc 210

<210> 18272

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D8

<400> 18272

gtccgccttg ttctacaacc ggggggggag caagatggcc ccgaacgacg tgttcggcgt 60
ggcgttcaac ggcggcgtca agcagcggag catgtggggc ggcgagccga ggcagatgac 120
gctgcaggtc cgctggaaag ccgacccgcc catctacacc atcaggaggc gggtgccgca 180
gcacgccaca agcttgatcg tctccttcac caacgggggc gagtgggacg ggccgtacac 240
cctcaagttc agggtcgcga aggcgtggca gacggggcgc tgagcttctt caaccagggc 300
ct 302

<210> 18273

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-D9

<400> 18273

agcccacgcg tccgtcggaa tctgaagacc tgaaccaagt ttgatttact tttcaaaggc 60
aagaatccag atagcagagt tgaatgtta cccatggatt tatcagctgg tgaagaatct 120
ctgaaagaag tcgtacatgt ggcagaatca tttttttcta atgcaggcgt tgactatatg 180
gtccataatg cagccttcga acgtcctgta aatatcacc cttattttgag ttaatgtttt 240
aactccctta ccttcaaag atcatgttgt tttattgtta gtagtttttg atgatagatc 300
tgctagacat cactcctttt taatcatatt ctgaatcaga tgatccctaa atgcatcaat 360
ttttaatcag attgcagaaa cggaggggtc tagaagaaag tgaggaagggt cttaaggcta 420
ca 422

<210> 18274

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E1

<400> 18274

acaagtttgc taaaactcgg tctagtgagt cagccacacg gactgatcca aatgcttcca 60
atcctcctgt ttgtcctgcg acttctgtgg cgtctggtcg ataatgggga gcttcttatg 120
ctcagcaagc tgcatacct gcataatggaa cttatgacta cagccatcag gtgccacttc 180
ctgctcctca aacagctgcc tatggtgctt atcctcgagg atactctgtt caggcctata 240
cacaac 246

<210> 18275

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E11

<400> 18275

cggacgcgtg ggcatgcagg ctgctgagtg aaaatgggag tggcaggtca caacgatcca 60
ttgttaggtg aaacgacatg tgggtctttg ctgcagcaac ttcagctgat atgggatgag 120
gttggcgaaa gtgatgaaga tcgtgacaag atgttacttc agctagagca agagtgcctta 180

gatgtttata ggagaaaggt tgatcaggct tctagctcca ggatcatgtct cctccaacag 240
 ctttccaact ccaaactcga actgactaga ctcttttctg cattaggaga gtcattctatt 300
 tctgggtgctc ctgacaagac atctgggtaca atcaaggagc aactagcagc tatatcacca 360
 tcttttagaga cactccgcag gaaaaaagag agtacgggtga aagagtttgc tcatgtacaa 420
 cttca 425

<210> 18276

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E2

<400> 18276

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 gcatcagcag gttcagctcc ccaaactta attcgtaagt cgggttttgg tgttctcca 120
 cagcagcctc accaagtcta tcagtcagaa gcgcattctaa gccattttat gatgcagcaa 180
 gttccgaaca gcatgcccat gcctgaacag caacctaata gcatgcttgg aacgcaacaa 240
 ggtttgggtt ctttcaacat gggttgtgat caggagctt ctctcggagg gcccaggca 300
 aacacccac ctctctacgg ctccgttgggt ggt 333

<210> 18277

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E3

<400> 18277

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 cacatgttga tgacgatcaa catcactcda tttgcagcaa ccatcaaagg tagccactt 120
 tgtgagatgg cgcgatacag tttgggtgaac cggcttgcca atccaggcat ggctcttttt 180
 gctacgagtg tacatatatta tcagagcaac cgcgttatag gactggacat agatgatggg 240
 ggcttcaagc agcaggattg tcccaactga taaggatacg cccttttgtt tgtttgctca 300
 atacgtcggc ttgagctggt tgtgt 325

<210> 18278
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-E4

 <400> 18278

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 ttgctctgct tttcgtgata gcccggtgtg gggcatgggg cgggggagtg cgggagagcc 120
 tccgccgaca ggggtggcgt aaggatggcg ccatgcatct cggctgccgg gggcccgcag 180
 tccacgccga ccagcagctg ctgctccgct gtgcacagga tcgggcagag cccagctgc 240
 ctgtgcg 247

<210> 18279
 <211> 245
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-E6

 <400> 18279

 caagtcggcg gataaggacg gggggaagaa cgcgccatc tcacggtcct cccgcgcggg 60
 cctccagttt cctgttgac gaatccacgg tcagcggag caaaggactc aggcaaattg 120
 gggcggttggg gccaatgcag ccgtctactc tgccgccatc ctggagtagg ggactgccga 180
 ggttctggag ctggctggga acgcgagcaa ggatggtgag gtgaagcgta tcaccctcgc 240
 ccacc 245

<210> 18280
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-E7

 <400> 18280

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 aaacaaaggc acaaccaacg acacaagacg cgcagcacia caaacacca aaacaaacac 120

caaacaacac accaaaacac caaaaaacca aaaaaaccgg ccgcccc 168

<210> 18281

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E8

<400> 18281

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ctgctggagc tcctgacggg caagtcccc tcgcacgcgt cgctggaggg cgaggggacg 180

ctggacctgc cccgctgggt gcagtccgtg gtgcgggagg ggtggaccgc cgaggtgttc 240

gacgtcgaac tgggtggcgcg ggcgcgggag gcggaggagg agatgggtggc gctgctgcat 300

gtggccatg 309

<210> 18282

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-E9

<400> 18282

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgccgcc cgcgcgtccg 60

cccacgcgtc cgccgctgga tggtagagg atctgcatct tcttgtgttc ttctgtaaaa 120

tacggagact tgggcagcat aaaaagcttg gcaaatttct gttgtgtggc atctccatgt 180

aagtaacagt ggactgcatg cagaagcgag cgttccagtt ttgcgacaga agggggcgtc 240

cgaagtgttt gtactgctaa tgaacgtcga actagcatga taaaatgtat ccagcacat 300

ttggttgatt gtgtcacact agaaagccat gtgacagcgt ttggctatga tgctgtacca 360

cctgaattta catagtcct ttt 383

<210> 18283

<211> 180

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F1

<400> 18283

gtctgttttc cctaaggata gaggatgttc ctgcctcttt atattcactc ttgttgtaa 60

gtccaagtgg aaaatcttgg catatgggac atattgtaat aataagcatc gtacaatcta 120

gatgctgttt tgtaataatt aattaatata ccagcccatt ggatggaggt gtttaccac 180

<210> 18284

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F11

<400> 18284

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catatgcgt agcgaagaag gtccggcggtt acaagcaaat caagcgaaca gaaggtgtct 120

cgagcactga catagtggg aggatattgc taacattcag gcagaaagat gctgacactg 180

atttaagtgt tgtcgttctt gagaagtctg gagagaaatc aaatgatgaa gtgaaaagtc 240

agctatctca tttccttcca acttctcgcc ggatcatgca gttttcaaata gggcaggctc 300

cttcgccagg tgctcgtgtt gtctatgtag atggcacatt tgatcttttc cagctggcc 360

atgttgagtt cctcaggagt gccagacaac ttggtgactt tcttctctgtg ggtatctatg 420

<210> 18285

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F12

<400> 18285

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gttgccgtac agagacctta tgggctctca gttgctgcat catttcgctg ggtagcttgt 120

tacctacaca tgcttgctag ctagctagga ggggtgggtat acggtggcta aatttttata 180

tatattaaag acaaggtaaa ttttgttt 208

<210> 18286

<211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-F2

 <400> 18286

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 tcctccccgg cgccggcgtg agccgcgggc gagcgccgcc cgtgttcgc gtcaccgcct 120
 cgtcctcgag ctcggggagc aagaaggga agaagccaa gagcgggggc gagggcaagg 180
 acaccaaggc gctggagcct ccagcgcccc tggcgcgccg cgcgccgccc ggaagcgct 240
 ccatatgcga ggaggaagaa ggtgaagcgg cgtcgagggc cgggggcgcc ggtgggaaag 300
 ggcccacgga ggaagagct 319

<210> 18287
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-F3

 <400> 18287

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 agcagcagca gcaccaccat cccccacc tgcaaatcca aatcgaccag ccgccgccgc 120
 cgccgcagga cggggggcggc ggagtgaagg agcagcagca gctgctgcag gtggtggcgc 180
 agccccggga tcggaggcag caggcgctcg ccccaagcg gagctccaac aaggaccgcc 240
 acaccaaggt cgacggcagg ggccgccgga tccggatgcc ggcgctctgc gccgcgcgga 300
 tttccagct cagcggggag ctcgccaca agtccgacgg cgagactgtg 350

<210> 18288
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-F4

 <400> 18288

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gttgagaagc tgttacgctt gacgttggct tggacgctgg tgacatatga tcaattggag 120
 accaacttgc ctactcatt aagctatggg ataatcagtg ttgccgtcag aaagctagta 180
 tgcctcgtcg ctcgatcatga ttacagtggg agcgtgagtg atgcaactat gacatatctc 240
 gacagggcggg ctacgggtgtg tctacacaac tgggttaaatt aagtcctcaa tcaactgtcta 300
 cat 303

<210> 18289

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F5

<400> 18289

tcctccgcca gcttcaggac ggatacggcg gctgcgcgct ccagtcggag ctcgtaagc 60
 tcgccttctc ctttgacgcg ctgggcgggc gcgtggaacc ctaccggcgt cgaggtagcc 120
 cgctcttcgt ctttctctac cgccttcgcg gtgtcggagc caggccagta cacgcgcgtc 180
 ttgcgcaact gcctcgggtg cgagctcaag gtcgacatgg aggtgcgctc cgccatgtgc 240
 aacgtcgacc cgggaggggg cgagggcgag tgggtctggg ggggaacctt cggcgtgcc 300
 ctc 303

<210> 18290

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F6

<400> 18290

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 ataaaagggtg cacgatctcg accgagtagg gctgaaggac ttcagaaatc atatggaaga 120
 actgtagcat ttgcgattc attggtaaata ttactttgat tctctagaga gggataatgt 180
 gagaccatta acacggttac agctaaactg cttgaaggcc gggcaaaata gggta 235

<210> 18291

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F8

<400> 18291

gtcatcatgc acagacattg agcgcgcagg caaccacgaa gagtccctat gtttagggca 60

gcccaggaac atcaggttga tccaagggtc ggccagtaga aaactacaga tctgatctga 120

atagctgata atgcccaatg ttcataagatt tgtccaggct gactgatgag ggcgccatac 180

aataacttttg cattc 195

<210> 18292

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-F9

<400> 18292

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ttcgtcctca gatccgccga ttccccgtcc ctgcgcctcc gtctcatgat ctctgcgcct 120

ctgcgggtgc ggctgccggc gccgaaggct gccgccgggg ggtcgttctt gctcggcgcg 180

tctctcgctg agtccaatcc caatcccaag cccaagccca gcaggatccg ctgcgccgcc 240

gccacgctgt acgacgtcct gggcctgcgc gccggcgaga cgggcccggga gatcaaggcc 300

gcgtaccggc gcctggcgcg ggagcggcac cc 332

<210> 18293

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G10

<400> 18293

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aagtgaagtt tatgggtgac cgcttgagca tccacagaag gagtcatact gggggcacgt 120

taatcctata ggtgttagga gctgttacga tgaggggaag agaacagcag agactttaac 180

tatggactat catcgtgggtg gtgggtgttga ggtgcgtatt gcccgatttt tcaatacata 240

tggctcctcgt atgtgcctcg acgatggctcg tgtggtcagc aattttgttg cacaggcact 300
 gcgaaggcaa ccgatgacag tctatgggtga cggaatacaa actcgaagtt tccaatatgt 360
 tgctgatctg gttgctggac tgatggctct aatggagagt gat 403

<210> 18294

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G12

<400> 18294

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 catgtttatg ctcaaataca ttgaattcta cagcagagat atggacctca ttttcggaca 180
 gaagcaaattg cattaattcc gcaggaggac agcgaaggaa atactgagtt tgagagctga 240
 ataaaccttg gaggacatca taagtcattt tggctatggt cagaattggt ggaatatgta 300
 cttaacaaat ggggtgcagcg gcttaaagggt atagcactga gtgcaaggaa tttggaaatt 360
 ctccagttgc acaacggcac caagcgatgg ccaagcaacc gggttgaatt ttgcatgagc 420
 acagtg 426

<210> 18295

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-G3

<400> 18295

caacgacctc cagccgggg cgtgtgcgat tggcggtagc acccagtaca cggatgaacaa 60
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 ggtgatgtac aacaaggagg tcaacccccg cgtgcccatc atcgtcacca gggactactt 180
 ctccacgctg tacgcaccgc tcatccacga cagcctgatg gagaagttct actggg 236

<210> 18296

<211> 71

<212> DNA

<213> Zea mays
 <223> Clone ID: LIB84-026-Q1-E1-G4
 <400> 18296
 ggggtctccat tatgaagcag gggggagtag acctgtccgt ccttctgctg cccaacatat 60
 tatgcgagaa c 71

<210> 18297
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-026-Q1-E1-G5
 <400> 18297
 gacgcgtggg cggagcttag ccttggtgga gaagttaaca tgtgacatgg agactttcac 60
 gaagcattgt tctgttcagg ttcaagcaga gttcgagctc ccacgtgcat caatgtgcga 120
 gttctcgcag atatggtctg gtcaaacactg ccatccggat cttggctaga cgcgtcctgc 180
 ttgctagggg ctcagagagt gctgggaccc tatagccaat aagtagtcct taggattcag 240
 tcggaagggg ttggagggcg tttgnncagc gccttgggtg tccttgaaca tcagggaggg 300
 agggcagatg agtagtttca caggaggtga accccttacg aagataatct cactgaaagt 360
 tctggatttg tcgttca 377

<210> 18298
 <211> 204
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-026-Q1-E1-G6
 <400> 18298
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 aacaattttt cccaccaaca tctcgatttc tcttaaacct tttttttcac ttccctatcg 120
 atatcatggg atttactgt aatctctggg tatcatgtat gtaacagcta caactttata 180
 tcatacttgg cttaccggaa tggtt 204

<210> 18299
 <211> 93
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-G7

 <400> 18299

 aaacaaaaaa aaaaaaaaca aaaacaaaaa aaaaaaaaac aaacaaaaca aaaaaaaaaa 60
 acaaaaaaaaa aaaaacaaaa aaagggcagc ccc 93

<210> 18300
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-G9

 <400> 18300

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 gtcgctgaac cccaacgcgc cgctcttcat cccggcgggc taccggcagg tggaggaatt 120
 ctgccccgag tggatgagc tcgtcaacac caccgcctgg ttccgggacc actggttccg 180
 ccagcaccag caccacgagg ccgccttcgc cgccgccgcc gacgccgagc tcgacgtcgc 240
 cgcgctctc cccgacgact ccgtcgacct cctcgacacc gacgacctca tctacgcgcc 300
 tgacgtccac caccctcaac aacgccaaagc cggcgctgct gcccggggta ctacctctga 360
 catgctcaac gtgcgctgag cctcaggctc cccccggggc c 401

<210> 18301
 <211> 303
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-026-Q1-E1-H1

 <400> 18301

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 gctgcggcag ctgccagggt catcgccgcg ggggcgttgg gatccgcctc atcctcgcgc 120
 aaggccttcg tgaagtccac cgtctccgcc cagcagctcg tcattcttcgc ggggtcatac 180
 tgcccgctact gcaaaagagc aaaggccgtg tttaatgggc ttgagttgaa gaaagagcca 240

tatgttgtgg gggccgatg agggagagga tggctcgcgg attcaggatg ccttacctga 300
gat 303

<210> 18302

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H11

<400> 18302

agcccaagcg tccgatgcgc aactcgctgg agaactactc ctacaacatg cgcaacacga 60
tcaaggacga gaagattgcg tccaagctgc cggccgatga caagaagaag atcgaggacg 120
ccatcgacgc ggccatcagc tggctggacg ccaaccagct cgccgaggcg gacgagttcg 180
aggacaagat gaaggagctg gagagcctct gcaaccccat catcgccaag atgtaccagg 240
gcgcgggtga agacatgggc ggcgctggcg gcatggacga ggacgcccct gccggcagcg 300
gcggccctgg cccaagatc gaggaggtgg actaagcggc ttgttgtcag tcttgagtgt 360
gctgcagttg ctggctggcc cagttgctgc cgagagttat cgtcagttgg tgcggtgtgt 420
c 421

<210> 18303

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H12

<400> 18303

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atggcgacct ccgcggcgct ctccaccgcc gccaatccca ccagctcta ccggtcccgc 120
gctttgctgg gcaagccggt gaaggggctt ggcttagca tgggcccga gcgcgcccag 180
cggagcattg tgtgccaggc ggcgagcagc atctccgccg accgcgtccc cgacatggag 240
aagcggaagc tgatgaacct cctcctcctc ggcgccatct cgttgccac cgtcggcatg 300
gtcgtcccct acgggcctt ctctgtccct gccggctccg ggaacgccg cggcgggacc 360
tacgcgaagg acaagctggg caacgacatc accggttgac gcgtgggtca acaagcacgg 420

tcccaacgaa cgcaag

436

<210> 18304

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H2

<400> 18304

ttgtgtgagg taggtgtaca aactggcgag cgctctttcc ctcgctctat acctctctgt 60

ctgcgacgcg gttgggtagg ctaccgccgc ggggtgccga ctgccgatgc cctcaacggc 120

ggcgaaaacc gcccgccagc aatggcagca aggtgtatta gcctttccgg ggcgtccttg 180

ttcgtccatg gacccc 196

<210> 18305

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H3

<400> 18305

tgaagctgtg tatggggggt aaaggggcgg agacgcagtg aagcactagg aatttctcgt 60

cagttgtgca acctcgccgc ggagtcaggg gttgtcaggg gatgtctgca tcggcgataa 120

tagacactga gaacgacgaa gaagtaatgg ttgaagaaga aggagtgtgg cgaccaacac 180

ctgaagacct acctgcgagg aactactttt atttggaact gtggacagag ccgactccct 240

atgggagagc gaggtggcgg agcaatttgg agagcaagtg gtacatgggg atctcaagtc 300

taagtatcga ggttaccaat cacgtgaaga gcgagcgggt acctggggat ccca 354

<210> 18306

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H4

<400> 18306

cgctggcaga caacacctca gcgatatgca gagccgcatg ccctgcccac ctcacaatgc 60

catcccagcc tgctcccgga gatccggggg gtcttgaaa caagtcctat ccccgcgcgc 120

tacaccgccc gttcgcgctc acctaatcac gacattcttt ct 162

<210> 18307

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-026-Q1-E1-H5

<400> 18307

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tcaacgtcgt cgtcgacgag ttgggcgcgt cgagggtgcc ggagatcgct gtcgagttcg 120

agaacgtgta caactcgctc acgggcaccg aggtcgccac cgtcacctcc gtcggggagc 180

tcgagtcgca ggacctcgcg cagatcgcg agcacgtcca ggagatgacc ggcgccaaga 240

acgtccgcct caagagggag ggcgacgang cggtcagcgg cggcgctacc gtgcagtacg 300

gcccgcgaccg ctcgaaacttc agcgacatga gcgtccg 337

<210> 18308

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H6

<400> 18308

tcgccgcgcg ccacccact gcggtgctcg tccgcgcacg cagcaacacc acgctagagc 60

ttctcgagac cagcaagggc agcgcgggga ccgttgattg gaagtgacat ctacgaccac 120

cagagcttgg tggcggcggt ccaccaggtt gacgtggtca tctccggggg gggccatcac 180

ggaccgcatg acctaaaaga cggacagctc acgagtgtgg cagccatcaa cga 233

<210> 18309

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H7

<400> 18309

cgtcgagtc attgcatag ctgggtgttc taggtgctct tacattcggg ctaagattga 60
agaggagaaa aggaaaaaga ggcgatgact gctgtggaga agattatcga gaccttcctc 120
ggacacaaca tcgtgcacaa tcacgacctt cttctatatc ttgttttgtt ttcattcttg 180
ggcaatccgt ccattgtttg ttcccagtct ggtgattaaa agtccgcaga ttctgtttgt 240
ggaa 244

<210> 18310

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H8

<400> 18310

aggacggctg cgctcagtca ctttgacagg ttcacgtca tgctggcaat gatcaaaagg 60
ggggctgcta tcaggcaaga actcgccacg ctgaagaatg cgtccacagg gtaaattcct 120
tctggtggat ggcattgta 139

<210> 18311

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-H9

<400> 18311

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gccagctgag agaggcggat ggggcagtgc ccgtgtttcg ggtccgcaa ggcggcggaa 120
caggagcggc gggcggaggg ggaccggcgc ggtcgcagg atgctcgcgc caaggccgcc 180
gaggccgcgc agaggagaca gcaggactat gagaaatcgg cagctggaag ggcagccaaa 240
gcacaaatga aagcaatgaa ggaatcaaag gcatcaaacc aatgtggaga gccggttctt 300
aagtggcaga tgggatcatg agtttcgttt ctgttgattt gcatccctcc gcttgtgaac 360
ttttgaatgg gccgaagaaa a 381

<210> 18312

<211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-A1

 <400> 18312

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 attgtggcca ttacctctga taagggactc tgtggtggta ttaattcaac atcagtgaac 120
 gttagcaggg cccttcacaa attgacatct ggtccagaaa aagaaaccaa gtatgttata 180
 ttaggagaaa agggcaaagt tcagctgttg cgtgactcaa aggacagcat tgaaatgact 240
 gcaactgaac tgcagaagaa ccctatcaac tacacacagg ttgccgtgct cgccgatgac 300
 atattgaaaa atgtggaata tgatgctctg aggggttattt tcaacaagtt ccaatctgtc 360
 atatcgttta agcccacaat gggaacaat 389

<210> 18313
 <211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-A11

 <400> 18313

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 tgcggttcca cgtgctgggg cacaagtgcc ccgctgagc ctcgtacaac acccgggaga 180
 cgagggctgt gtgccccagg atctgaggcg aaccagaggc tatgtcaaaa tgccaggag 240
 atgccgtcca acgactggtg gagatcatct gtccgcagga cgttctgtcg cttaagggtta 300
 aaggctagcg cgagaccaag cctgggtgtc cagtcttgac tctggtgctg tccagcg 357

<210> 18314
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-A12

 <400> 18314

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gaaaagcatt cagacgagga atgtgctgtc gacaatgctc tccacatggc ccatcacggt 120
tcatgattcc gggccaggtt agcttaccag tcaccatcgg tggcacattc agggagtcaa 180
tcaaggagta tgtcggcaac accttcgggt acaccatcaa gtggatccag atctgtgtaa 240
ctggccctgg catattcttc ataaaactca tgggtccacga caagaacatc tccgtggaga 300
tatcgtcggc tacatcgtcc acgtacacga ccatctagga cctcgtccaa gaggtcaaag 360
ctgcagagaa ggt 373

<210> 18315

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A2

<400> 18315

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cacctcgcca gcgtcatctc cgtgctcgag ccgctctgcg gactcgccgc catggccaag 120
agcaaggatc tgctccaggg ccgcaccggc accgcagcca cgcttgctgt ctctacttc 180
gcggtctgcg gcgtcacctc cgtgctgttc cgtgccgccc tcgttaaggg gcgcgccgag 240
gaggggagct tcggtctggc cttgcccggg cggctgcttg tcggcgccgt gctgctgtgc 300
gttcttgtct gtgtcaattt gctgggactg ctcgtgcaga gcgtcttcta ctacgcctgc 360
aaggccttcc acaaccagca gattgacccg gctggcgctt 400

<210> 18316

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A5

<400> 18316

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gcgtcctcct cagcgacacc ttcctcctcg acctaccaa ggagaagcct gcgtggaggg 120
agatccctac gtcctggctg ccccgctccc gcctcggcca caccacgtcc gtctacggcg 180

cgaccaagct gttcatgttc ggtgggctgg cgaagagcgg ctgcgtccgg ctgcgctcca 240
gcgacgcta caggtggac gtcagcgagg acagcccgca gtggaggcag ttggccacga 300
cgaccgggtt cccgaacatc agtccgcgcg cgaggctcga ccacgtcgcg gtgagcctgc 360
cctgtggacg gatcatcata ttccggggct ccaacggcgg gggctcaaat cccccggggc 420
agctgttccc gga 433

<210> 18317

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A6

<400> 18317

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caaggagaag aaggatgatg ctggaatttc tgaatatatt gatatggaga aagagcttca 120
agatgtcata acgttaaccg aagagatttt ggcaactgca aagcaaactg agagtgccca 180
gaatgttgca ggtctatcac cgccaagcta ttcagctgga gtgcagtctg agggactgga 240
tgacctttca cattcccata agtttgccgt tggactaga gttcaagctg tgtggagtga 300
agatggagaa tgggtataatg caaccgttga agctttgaca ccaaatggat actatgtagc 360
ctacgatggg tggggaaaca gt 382

<210> 18318

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-A8

<400> 18318

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gccaaactcg cctgatgaa gaagatccgg gccgtgctgg tggaccacgc cctcgccagc 120
ggcgaggccg agaaggacgc cagcgcgtcc gtgtttctca agatcaacag gttcgaggag 180
gagctgcgcg aggcgctgcc cagggagatg gaggcgcgcc gcgtggcctt cgagaccggc 240
gccgcgccga tcgccaacag gatcaaggag agccggtcgt acccgctgta ccgcttcac 300

cgccaggacc tcggcgccgt gtacctgacc ggcgagaagc tcaagtcccc cggcgaggag 360
tgc 363

<210> 18319
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B1

<400> 18319

aaccaaactc tcgccaagc cttcgccac gcgctccgcc acgcgtccga attcagatac 60
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ggctcggcag tcgggctccg atttctggac ggacccgacg gaggcgatcc ggcgcgcgta 180
ccaccgcacg gaccggaagc tgctgaagaa gacggcgggc gacgacagcg gcgaggggat 240
gaagaagggc aggcggcccc gcgggt 266

<210> 18320
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B12

<400> 18320

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gcaacagatg cttatgtgga aatcacctcc aaagactgtc ttacttttga agaaattagg 120
agatgagctc atggaagaag ctaaagaggt tgcttcattt ctgcatcac aagaaaagat 180
gaatgttctt gtggaacctg atgttcacga tacatttgct agaattccag gttatggttt 240
tgtgcaaacc ttctatactc aagataccag tgaccttcac gagcgaattg attttgttac 300
atgcttgggt ggtgatggac tcattttgca tgcacaaac ttatttagaa cttctgtacc 360
acctgttgct tccttcaatc tcggatctc 389

<210> 18321
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B2

<400> 18321

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gacggcgggg aggacgtccg ggtcggacgg cgactcggcg gcggacacgc acaggcgcca 120
gaaacgccgg ctgtcgaacc gcgagtcggc gggcggtcc cggtccgga agcagcagca 180
cctggacgag ctggtgcagg aggtggcgcg cctgcaggcc gacaacgcgc gcgtggcggc 240
ccgcgccgcc gacatcgcgt cccagtacac ccgcgtcgag caggagaaca ccgtgctccg 300
ggccccgcgc gccgagctcg gcgaccgct ccgtccgtc aacgaggtgc tccgcctcgt 360
cgaagag 367

<210> 18322

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B4

<400> 18322

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gccgccgcgc ccgcagcagc agcagcagca gcagaagggc ggcggcgcg gcactggcac 120
cggcgccggc gccggcacgg aggcggcggc agtggagccg gtgagcatcg acatcgcgga 180
gcagggggcg ctagtggacg ccatcacgct ggcggcgctt gcggcgccgg cgctaggcct 240
gccgccgttc gcgacggcca gcatggactg gaaggagacg ccgacggcgc acgtgttcat 300
ggccgacctc cccgggctgc gccgcgacg 329

<210> 18323

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B5

<400> 18323

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aaaaaaatgc tagtgtatTT cttcattctg ccccatatTT actcaactgt tgaaaggtgt 180
 aagctgattt gaatatcgta tcagcattag ttaagaggTT gattgatatc atattcttgt 240
 aatgatagaa tattctattg g 261

<210> 18324
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B6

<400> 18324

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 cgaggcccg cgtgacgatgc gcaagacggc ggcgaaggca aagccggcgg cgagctccgg 180
 cagcccggtg tacggccccg accgcgtgct ctacctgggc ccgctgtccg gcgcgcccc 240
 gagctacctg acggggcgagt tcccgggcga ctacggctgg gataccgcgg ggctgtcggc 300
 ggaccgggag acgttcgcca agaaccggga gctggaggtc atccactccc gctggggccat 360
 gctgggcgc 369

<210> 18325
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B7

<400> 18325

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 aacctccgc ccccgagca cgcgtcggcg acgtccgtgt accccgacgc ccccggtcgg 180
 tcgaagggtg ccatcgacag gccgtagtag tcggcgagcg agtaggtgaa gcccggcagg 240
 cgggaggcga ggctggcgag caggaccgcg agggcgctcgt ccaggccccga cgcgagctcg 300
 ttcaggccgt ccaagcacgc gccgtcttc gtcccgcggg acagccgcgc cacggggacg 360
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<210> 18326

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B8

<400> 18326

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ttggagcatc gaccgaggca gagctagagg accgcaagct ccgcatagag gacgcgaaga 180
atgcgacttt tgcagcaata gaggaaggta ttgttccagg aggcggtgca gcatatgttc 240
atctatcgac attcgtaccg gctatcaagg agacgttga tgatcctgag gagcgctag 300
gtgctgatat cattcagaag gctttggtgg cacctgcagc gctgatagcc cagaaggctg 360
cgggtgga 367

<210> 18327

<211> 199

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B9

<400> 18327

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cggcgtggtg aagaactagt gtaaaaacgg ctttaaagtc tattttgtgc ggtagttcgt 120
gtaggccgct tcgtcccgaa gcgatcttgg taaaagactt attcgtgttg ccaaaaaaaaa 180
agaacagaca caaaaagaa 199

<210> 18328

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C1

<400> 18328

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acacgtccca catatagcaa ggggtcccaa accttgcatt acccccgtagc ccaaacaatcc 120
 ccgtcccat ggaccttggg ataaggccta aacggagatc tcccgcgacg tccacccac 180
 cgtaatatc tctcaaggat agcactcact cccgcaggtt taaaaatggt gaattttcaa 240
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<210> 18329
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C10

<400> 18329

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 ccgcgtcagg cgagcggggc gcacggacgc tgcgaccgat ggatctcaag gatagcctct 180
 ccaaatttaa gcaacagcag gagagatgcc agtcatcact ggcgagcata gctgcttcga 240
 cctcaaagcc aaagcacagg gcccaaccag cgcagtctcc taacgtccca gcaagaccat 300
 cacaacctat taagtgttca aatgatacag aaaggctgca gcacatcaat tcgattagga 360
 aatctcctgt tggagcacag atcaagcttg tca 393

<210> 18330
 <211> 208
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C11

<400> 18330

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 actcagcaga gaagcagagc tagacatgta atccagacag ccaaaatctg agatctgagg 180
 gtacatatct gatgaaatca ttttaagc 208

<210> 18331
 <211> 365
 <212> DNA

<213> Zea mays
<223> Clone ID: LIB84-027-Q1-E1-C12
<400> 18331

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gttcgacgct tcgcccgagc gcccgaacgc cgccacggca tggcttcctc catctccgcc 120
gccgctaagg cctccgcggc ctttgcccaa aataaggagc tggccgcgcc ggcgccgcac 180
cgcgcggggt cgagccgtcg gaccaagccg tgccgcgtgc gcgccgtcac gtcgcccgcg 240
cgcaactctc gcgtccgtc gtcgaccggc tcggtgaaga ccgcgatgac tatgacggag 300
aacatcctgg ccagggcgtc cgagcgcacg gagctgggac ccggggagaa cgtgtgggtg 360
gacat 365

<210> 18332
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C2
<400> 18332

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cgtcgtacac ggaaccatta ccggtgttga catcagcatg aatactcatc tgaagactgt 180
gaagctgaca ctaaaaggga aaaatcctgt tacccttgat caccttagtg tgaggggaaa 240
caacatccgc tattatatcc ttctgacag cctaaacctg gagactttgc tggttgagga 300
aacaccaagg gtcaagccta agaagcctac ttctgggaag cccttggggc gtgggcgtgg 360
ccgtgggtcct gggcgccgtc ggggt 385

<210> 18333
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-C3
<400> 18333

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 atagttacct ttcagaaaat tcgaacgaag gatataggtc tatctatgct tcattcttct 180
 gaagggtgga gaaaagatca aactgattat tgatcaaaat tagggtttga aacttaggta 240
 attaacttct tctgcttaac ccaagaagaa attggattga tttttgagaa atcgaattca 300
 gttaagatag gggaaattaa gatagcaatt tctgagccgt atgaggttaag aaactctcaa 360
 gtacggttct aaggaa 376

<210> 18334
 <211> 346
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C4
 <400> 18334

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 tgttcatact atgggcaatc tcttcaccaa gatgagcctt gggaaagttg cagtgtcatt 180
 tacgcacacc atcaaggcta tggagccttt cttttctggt attctttctg caattttcct 240
 tggcgagcta cctactatth gggtagtalc ttctcttctt ccaattgttg gtggtgttgc 300
 attggcatct cttactgacg catcctttat ctgggcccgc ttttgg 346

<210> 18335
 <211> 396
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C6
 <400> 18335

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 cgtctggttc ctctacggcc tctcatcaa ggacaaatac gtcgcgcttc caaacatcct 180
 tggcttcacc ttcggcggtg tccagatggt gctgtacgtg gtgtacatga acaagacgcc 240

gctgccggtt gccgacggca aggctgccgg caagcttccc tcagctgcag atgagcacgt 300
 cgtcgtcaac gtcaccaagc tcagcccggg ccgactccca ccagtaacac agatggcggc 360
 ggttcccacc aagagctgcg ctacagaagc agccgc 396

<210> 18336
 <211> 364
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C7
 <400> 18336

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 aagagtgtca tactacaatt tcacaagaac aaccctaaa actcaacaca taataacaac 120
 tacagagcat ttcgctttga gtaacaagg aaaattctcg tgggtggatat gatatatcca 180
 gtttactcaa tgattttggt gatgacacca gcaccaacag tcttaccacc ctacaggata 240
 gcaaacctca taccctgctc acaagcaaca ggctggatga gctgaacaac catcttgata 300
 cggtcaccag gcatgcacat cttegcctcc tcaactttgg cagtcataat cacagtcaca 360
 gtcc 364

<210> 18337
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-027-Q1-E1-C8
 <400> 18337

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 tgctgaacat tacactgctc ccaggatggt tcttgcagca tcaggagttg atcatgatgc 180
 gctgatttca gttgtagaac cacttctgtc tgaccttccg tgcgtgaaac gtcctgaaga 240
 gccaaaatct gtgtacgtgg gaggagacta tcgctgccaa gcagattctc caaacacaca 300
 catcgcaatt gcttttgagg tgccagggtg ttggaatcaa gagaaaactg caatggttgt 360
 gacagtgcct cagatgctca tggg 384

<210> 18338
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-C9

 <400> 18338

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 cacagccgcc gcgccactgg gctgacgctc gccttcctca gtgccgcagc gaaggagctc 180
 ggctgccctc tcccgatcatg acaaggccat tcttgatct gacatcggtc tccaattgac 240
 ggtcagtgtt ggcacagctg ctgcagggtc cgcgagtagg acggctccaa tctctccatc 300
 acgttgtatt atctggtgtt tccataatgc cga tcaatttg 348

<210> 18339
 <211> 401
 <212> DNA

 <223>

 <400> 18339

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 cacagcaatt ttactagtgt tcttcgtcc ttgcctgatg cattagatct tctagcaaca 240
 caaagctctt ctgacgagcgc cgacaattct gatagtagat cgtcattgac tatgaactgg 360
 gaagatgcaa aagttacaga tgaagatgca acgaaaatac c 401

<210> 18340
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-D10

<400> 18340

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acctgctgcc attcaatatg gaaccggtgc aattgctggt tttttcagtg aggatagcgt 120

taaattaggt gatctggatg tgaatgatta ggaatttatt gaagctacaa aggagccagg 180

ccttaccttc atgggttgcaa aatttgatgg cattcttggg ctaggctttc aggaaatatac 240

tgttggaat gcaacacctg tgtggtataa catggtaaaa caaggtctca tcagtgaccc 300

tgttttctct ttctggttta accgacatgc tgggtgaagga gaaggtggtg aaattgtggt 360

tgggtggaatg gattctagtc actac 385

<210> 18341

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D11

<400> 18341

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aatcctcttc atgtgcagtt cccaggcttg taccatcttc agcaacctcc ctctattgta 120

agtccgcacc ccatggtgca tcaacagggtg ccatcgcca ttggtcccaa tgttgggggtt 180

ggggtggcag ctccaggccc gcaagttgga gcttatcagc aaccacagct tggccatatg 240

aattggagac ccagcttttg aagaaggttt cttaattatc tgtaattagg gggggtcaca 300

agagccttta tgtaacaaca gtaggctcct tttaacagga agcaccttg tttttagtgc 360

agctctttct gatctattta agctataa 388

<210> 18342

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D12

<400> 18342

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atggagagca cgccccgcga gatcgacgcc accaggctgg agagcgggct ctgcgggatg 180
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ctggcgctgcc atgtgaccat cccaaggat gcggaacgtg atgagatcct tgacaagggtg 300
atcgggtaca tcaagacgga gtacaacatc agccatgtga ccatccaggt cgagcgcgag 360
tagggagctc tgtctttggc tgctgtcttg ggcaa 395

<210> 18343

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D3

<400> 18343

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gaggaggctg gaggagtatg ccaggggcat gaagaacgcg ctgccatgag tccaagacaa 360
agttaaactg tcagagaaac cttgagtact atccaaccaa caacctcggg ggaagacgac 420
gaccgaccga 430

<210> 18344

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D4

<400> 18344

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cactccgccc ctcccccgcg ggaaggctcc gtctgctgtt ctgcccgcg gcggcggcca 180
cggctgcata ggtcggctgc ctcggtcct tctccggcct cgcgcccgtc tcgaatctcc 240

tctccctcgg cgctgagaac tcaagctttg agcatcgggt gtttggtatt gatgcccgtg 300
gaaggatagt tgcgatgca catgggagac gcgttcctaa accttaacag gcctccggat 360
caaaggaaag cccctgttcc ttgg 384

<210> 18345
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D5

<400> 18345

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tttcacatcg tatggaaatg aagcagcaga ggaaatgaaa aaactacgag gtctaagatt 180
ggaaacactg atggaaacct gccaaaacac agaaagcaga gatgtagcga tcaggtgtcc 240
aatacatgc aaaagcagca ggcggtatag ggaacatgac ttgagagctg cacaagatct 300
ttctgaattc attgcttcac ctccatactt tatgggatct ccaccacttc gtgcaaccaa 360
tctctttgct catgatgcac aattct 386

<210> 18346
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D6

<400> 18346

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actgaaggaa agacggtagc tgtaggcaaa gttgttgata ttccgcctgc tggtagccca 180
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<210> 18347
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-D7

 <400> 18347

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 aacaatattt aaatttagag tctcatcaat tacatcacaa aagtctcatc catagtcaat 180
 gaagggatat attagctcca agcaaattgt gttaccataa aattccatgt agagcaaaca 240
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 tttgccatca tttatagctt ccaacatggt gatgcactgg ga 342

<210> 18348
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-D8

 <400> 18348

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 agattgagac cctgctgagc atgtacgtgc agtatgttcc tagtcacttg tgtatcatta 120
 ctagtaatgc agtatccctc gtg 143

<210> 18349
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-D9

 <400> 18349

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 aacaggaagc caggagactg ggactgcagg gcgtgccagc acctcaactt cagccgtcgg 120
 gatgcatgcc agcgctgcag tgaaccacgt ggagttgggtg atcgtagcgg cgggtggtggc 180

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ttcaagtgtc ctgcctacaa ggaagacgct gccggcgccct ttgatagtga catgttacgc 360
tcacgcggct aagccggc 378

<210> 18350
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E10

<400> 18350

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gcctcagggc ctgccgcccc tcggccgccg cgcctcctcc ttgcgcgtcg tctgctccaa 180
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cgccaacggg agaaagggca agggcaaggg cgtgtaccag ttcgtcgaca agtacgggcg 300
gaacgtcgac ggatacagcc caatctacaa cgaggatgac tggctctcca ccggcgacgt 360
ctacgtcggc ggaaccactg ggcttctgat ctgggcccgc accct 405

<210> 18351
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E11

<400> 18351

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ccacgggcag caccatata ctggcaaagg ggtcaccatc actagccttc catttccagt 180
gcatggcgtc caatttctcc gcgggcaaca gcctccggca cgagctggac gaaaacgccg 240
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gtcctacct 310

<210> 18352
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E2

<400> 18352

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gcctcagggc ctgccgcccc tcggccgccc cgctctctcc ttcgccgtcg tctgctccaa 180
gaagaagatc aagaccgaca agccctacgg gattgggggt ggcctgaccg tcgacgtcga 240
cgccaacggg agaaagggca agggcaaggg cgtgtaccag ttcgtcgaca agtacggcgc 300
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<210> 18353
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E6

<400> 18353

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gctggccacc gcggtggtgg acatgtactg caagtgcggc tgcgtcgagg aggcgtggcg 180
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cgggttcgcg gtgcacgggc gggggcagga cgctctgaag ctgttcggac g 300
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ggggatgctc agcg 374
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<210> 18354
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E7

<400> 18354

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ctctctcccc ttcctcacga tgaagcgtgt gtcctctgtt ccgtcgttgt ccaagtggac 180
aatccgatac aagcaattgg gacatgcatt atatcagaga agccacgttc tggcctttgc 240
tagtgcagat gcatcacaag gcaaaagaag ctcaagtgag aatgttgtga tggttgatcc 300
actggaagct aagcgtctag ctgctaaaca aatgcaagaa attagggcca aagaaaagct 360
ga 362

<210> 18355

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E8

<400> 18355

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gctcaagaac ggccgcctcg ccatgttttc catgttcggc ttcttcgtcc aggccatcgt 180
caccggcaag ggcccgtcgc agaacctcgc tgaccacatc gctgaccag tcaacaacaa 240
cgcatgggcc tacgccacca acttcgtccc cggcaactaa gctcaacggc tatgctatgc 300
aacttcattg tctttcggat cggagagggt gtacgtacct ggattgattg atgctgcgag 360
atgcatgtgt gtccttttgg ttcaacttgc a 391

<210> 18356

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F1

<400> 18356

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cattccattc actgatggaa gggatactga aaaaagctgg tgtggaaaaa tcaatcgagt 120
 ttgctgaaaa catagcatct acgggaattc tgctgaatga tttcttttta tgccattga 180
 ttagacacct ctgcaagcac aagaaagctc ttgaagcgca tcaactattc aataagttaa 240
 aaggtcttgg agtttcaacta aaaactgggtt cttataattc tcttatccgt ggccttgtgg 300
 atgaaaacct gattgatatc gctgaagact tgttcactga aatgaaaaga c 351

<210> 18357

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F2

<400> 18357

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 gaccaggtc agagtgaagt tcttgatga ccagaaccgt ctcacatga ggaacgtcaa 120
 gggccctgtt cgtgaggttg acatcctcac cctgctcgag tctgagcggg aggccaggag 180
 gctgcgctga agccctggtg gccttgatg taattctgtt aattttgttc tatgtttgtc 240
 gaacttgccg tgtcccttgc aacatctgct ttgagattta ctgagcctgg attgcagttt 300
 tattttatgt tcctgctgga aagtacactt gccgaaacat agttatcatt gggtatctat 360
 aatagctcaa tcgacgctg caatctgaaa gctttgtt 398

<210> 18358

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F3

<400> 18358

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 cgcgctgcgc tgggcaagcc agtgaagggg cttggcctgg ggatggggcg ggagcgcgca 120
 agccagcggg gcatcacgtg ccaggcggcg agcagcatcc ccgccgaccg cgtccccgac 180
 atggagaagc ggaagctgat gaacctctc ctctggggcg ccatatcgct gccaccgtc 240
 ggcaggtcgc tccctacgg cgccttcttc gtccccgcg gctccgggaa cggcgcggcg 300

gggacctacg ccaaggacaa gctgggcaac gacatcacgg tggacgagtt gctcaacacg 360
cacgggtccc aacgaccgca cg 382

<210> 18359
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F6

<400> 18359

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gcggtggctg cggaacaac aatcaacggg gcccttcttc ctccaatcgc ccccttcctc 120
ggcgcccgct tcttgtctgc cccgactact tcttcaccgc cttcttcgtc ttcagctgcc 180
tgccacgagg aggatgcgga ggacagagac ctccccgaga tctccaatgg tgatgcaggt 240
gcccggctca gcatctccgt cgaccgctcc gggctctaca accccacaga gcactcgcac 300
gagccgtcgt cggaatccga gctcgtcaag cacatcaaga gcatcataaa gtttcggagt 360
gggccaatca gcataactg 379

<210> 18360
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F7

<400> 18360

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cctgagctcc ccttcgtgt ccgtgtcgc gccgccgccc ccgctcagct cccatggcgc 120
tcgcccggcg ctgcggatcg aggcggccag gcagctgacg gggcgggtgg tgacgaccaa 180
ggcggacaag acggtcgggg tggaggtggt gcgcctggct ccacacccca agtacaagcg 240
ccgggagcgc atcaagaaga agtaccaggc gcacgacccc gacaaccagt tcaaggctcg 300
cgacgtcgtc gagctccaac cctcccgctc catctccaag accaagcact tctcgccat 360
cccgtccccg ccccgcgaca ctcg 384

<210> 18361

<211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-F8

 <400> 18361

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 gatcctcctc tctgctgca aaggatgcc atttcagcag tgacgagcat cgtggatata 120
 tgcaattcct ctgcacatgg atggattggg atgtaacttg gaactgttaa ttttttttta 180
 ctttgatttg gatgcatcat gacccccct tcaaaccagc tagtgaaatg ccattttagg 240
 taaaagtcga cctcctagta tcatattgtc gttgtcttga tccgagtatc tcaccaacca 300
 gtgaaatgat gttgctgcc ttggcccaga tgagtgatgt aaggtcacac aagtcattta 360
 tcctagtttg ggcgagagaa agccctactt ccagc 395

<210> 18362
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-F9

 <400> 18362

 ttttattttt tcgaaaacat gcaagaaaac tgatgtctgt caatagatct aaagtacagt 60
 ttccagctac agaaatgcat aattgcagta ccatcaaac aattctaagc gactcaatat 120
 gtccaaaact ctatgggttt tcacctgaca gtgagctgaa cctgatcata tctccagacc 180
 agatttatto agcagatgaa ctgacctgc acgggcacat ccccccata gagcctgagg 240
 tccaagtcga tcttgcctg ttcagtctcg aacgctcgt cgtgctccga gtgctgcgct 300
 ctcagcctga agtcccagg ccacgccgcc gaaccgggag cctcctcgca agcggcgacg 360
 gtcgtccccc aggcg 375

<210> 18363
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-027-Q1-E1-G1

<400> 18363

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gaagggttag caccaataaa ttgatagtt gaagacaagt tccatcgtgc tactcctggt 180

ggtactgggg gtgtgaagac cataggaaat tatgcttcgg tgttgatggc acagaaaatt 240

gcaaaggaaa agggttattc tgatgtcctc tacttggacg ctgttcacaa gaagtacctt 300

gaagaagttt cttcatgcaa tgtttttgtt gtcaaggaca atgttatttc taccacagca 360

ctaaaatgaa caatattacc tggatcaca aggaaa 396

<210> 18364

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G10

<400> 18364

acgtgttaaa cgtgttagtg gaatgatgga tgggtctcact acgtataata tttagtagat 60

agcctgagtc gttgttatTT ttgtggaatt cgtggcgggt taataatagt actctggttt 120

actactaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 240

ggggccccc aaaaggttca aaccttaatt acccgtcaaa gaaaaatcaa accccttcaa 300

aactgc 306

<210> 18365

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G11

<400> 18365

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cgggcaaggc gccaccaggg aacgttgag gaaaccacac ctgggttggt ggtgcccccc 120

agcggccccc agacctgcgt ctgacgcctg gacgccacgt ccagctgacg gttccgctgg 180

agcagctgat agaccggctg gtgaaggaga acaggggtgtt ggccttcac aaaggatcaa 240
 ggagcgctcc tcagtgcggg ttctcgcaga ggggtgtggg tctcctggaa gcgcacgccc 300
 cggatttcgt gaccgtcgat gtgctcgacg aggagcacia ccacgggctg agagaaaccc 360
 tcaaggetta cagcagctgg ccgacgttcc etc 393

<210> 18366

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G12

<400> 18366

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 gtcgtctgag aatgtgcctg cccgatcag caggtgcttg caagacggcg cggaggagtt 180
 ctctctgaag cccgtgaagc tggccgacat gaagaagctc aagtcgcacc tgctgaaacg 240
 gaagcagccc aaggaggcgc aggcgcaggc gcagcaggga caggcggttg agctggagcc 300
 tgagcagcag ctggaccgc gcgcgcagcc ggggcacgac ggggaggaaa ccgcggcaga 360
 gccgcccgc 369

<210> 18367

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G2

<400> 18367

gaagagagca gaagcgaaga gcagcggcgc aaaggaaagg gagccatgct cgctcgccc 60
 gcgctcgccc gcgcccactc ctctcgggcg tccgtgtatg gaaacatcct cgccccctcg 120
 cctcccgctc ccgcgcgggc acgtcgcgcg gcgctgtccg tcgtcgccaa ggtcaagggtg 180
 gccactcccc aggacgaccg catcgcccgc cagctccgcc tccgcaagaa ggtaagtggc 240
 accactgaga ggccgagggt gagtggtttc cgctcaaaca aacatctgta cgctcaagtc 300
 atcgacgaca caaagcaatg tactctggct tcagcttcaa ccatgcacaa atctctctcc 360

aaggaatttg aatactc

377

<210> 18368

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G3

<400> 18368

acgccgagct cgacccggag aagaggctgt accccggcgg ctctacttc gaccgcctcg 60

gcctggcggc cgacctgag aagaaggagc ggctgcagct ggcggagatc aagcacgcgc 120

ggctcgccat ggtcgcttc ctgggcttcg ccgtgcaggc cgccgccacc ggcaaggggc 180

cgctcaacaa ctgggccacc cacctgagcg acccgctcca caccaccatc ttcgacacgt 240

tggagggtc ctcttaagcc cgccattgct ccgcccgcgc catcgaccgg ccggaacgtg 300

ttcttgatt aattaactac gatctctatg agcctgggga tggatcaacc cgtcgtgcgt 360

ggtctcgttt tgtgatgagt tgg 383

<210> 18369

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G4

<400> 18369

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aatttgacga agcattegct gagaccggtg tgagctcgag tccaccagca agggaaacat 120

ctgaaattga agaagtcgga gactgggaca acgagttgta tgaaaggggtt caaagtcac 180

tgggggcatc aacatcaagt gctttgttct ggaacactcc aggaaggac tatggtacag 240

aagaaaacac taacagcact tgggtgggcac atgccctgc atatccgtct ggtccccacg 300

gtagct 306

<210> 18370

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G5

<400> 18370

gaagagggaa aaatcgaaat gaaataaata aagaataaag ccaaaaaaat aagtcgaaga 60
tagaagagcc cagattcaaa atgaagaaat ggaaactcga aaaggatcct tctgattctc 120
aaagaatgag gggcaagggg attgataccg agaagattt cttcttatta taagacgtga 180
tttgatccgc atatgtttgg taaaagaaca atcttctcct ttaatcataa atggaaagtg 240
ttcaattaga acatgaaaac gtgactcaat tggcttagt tagtcttcgg gacggagtgg 300
aagaagggcg gagactctcg aacgaggaaa aggatccctt cgaaagaatt gaacgaggag 360
ccgtatgaag ttaaaatccc aagtt 385

<210> 18371

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G6

<400> 18371

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tccaccgtct ccggcctcgc cggcgcctcc ctggccagcc gcccggcgtt ctccaccagc 120
ttcacgcggg gcagccgggt gtcggcgagg aacccccctga tgagcaggaa cctgggagagg 180
aatggcagga tcacctgcat gacgtttccc cgggactggc tgcggagggga cctgagcgtc 240
atcggcttcg ggctcatcgg ctggatgggg ccgtccagcg tccgggcat caacggcaac 300
agcctcacgg ggctcttctt ctccagcacc gcccaggagc tggccactt cccacgccc 360
ccgcccgtca cctcccagtt ctggctgt 388

<210> 18372

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G7

<400> 18372

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cgcccgccgc gccgggtcgc ggggcccgcg ggggtcgggtg tcggtgcgca gcacgggtgtg 120
 ggacctcgtg gccggggacc tgatgcggcc ggacctgggc aagtggctgg atccacctgc 180
 acaagcaciaa cgcgctggcc atctacgcgc cgcacgaggg cggtacaac gcccgctacc 240
 tgaaccgcct ccgctaccag tgctagtact tctcagagct caccgcgcag gggctcggcg 300
 acgcggacat gacgctcact aagggtccacc ccgtctgcac gcctagcctc ggaagggtacc 360
 ccgtggcggtg gtagtacttc ccggcc 386

<210> 18373
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G8

<400> 18373

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 gaaa+cagat ggttcagaga ccgacattcc 120
 ac aagtg aattc 180
 t actct caagac actcaggaat tctatcgc 240
 gatcaac gggcaa aacaacagca tacttctctc cttgacttga gaaattttga 300
 cagc ca gattg 340

<210> 18373
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-G8

<400> 18373

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 cttaatgc ggtcaaca gaaccaactc acacattggc tgggcatagt gaaaatcctc 180
 actagctact tggatgtact aaggggaaaat caggttcctt caattctggt gcataaactt 240
 ttcaactcaaa tgttctcact tattgatgtt caattattta accgattact tttgcggcgt 300

gagtgcctgtt ctttttagtaa cggggaatat atcagagctg gactagctga actaaaacat 360

tggtccgaca atgctacaag agagtttgca 390

<210> 18375

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H1

<400> 18375

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<210> 18376

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H10

<400> 18376

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tgggccctgt gatgcagcag gggttcgacc gtgcagagggc tgtgttcacg ctcatcagcc 120

gctgcatgtg ccacacggtg actcagctga ttgccgacct gagcgtaaata gcatgggtgc 180

acgagctggg cagcgacccc aggggcaagg acatggtgca cgcgctgctc aatatgctga 240

gatggaaggc gcccgccgtc tccgccgtca tcagctgcgg gaattctatc tgcggcacca 300

gcaaagtcac gtctctccac ctgcgggat agctcgtgcc catgctcacg aatgctagcg 360

ccctctgggt ctaca 375

<210> 18377

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H11

<400> 18377

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ttgcatgtgg agcgtaaaaa ggcacagttg gttgatacca agaaaatttc tattgacaat 120

agtcattgcag ctgctgtgga tacctctgag ctagtagttg aaatgatgca agtgaaggaa 180
gacattgaga accaagaatt agttgtgcag aaaattaatt tgaaacttac agatgctttg 240
caagaagaga ataatagaag agcgtcttac aaggacttca ttgagtctgt acatgctgaa 300
atgggggtcta ttagcgatgc tgagcgtgaa ttgcagcttg ttgaagaaaa aatacctgat 360
gctgagcaag agaaggccca ctatgaacgt g 391

<210> 18378
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H12

<400> 18378

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ggcctcgctg gccaccgccc tcgctccggt ccaggggctc aagtccaccg ccagcctccc 120
cgtcgcccgc cgctcctcca gaagcctcgg caacgtcagc aacggcggaa ggatccggtg 180
catgcaggtg tggccggcct acggcaacaa gaagtctgag acgctgtcgt acctgccgcc 240
gctgtcgacg gacgacctgc tgaagcaggt ggactacctg ccgcgcaacg gctggatacc 300
ctgcctcgag ttcagcaagg tcggcttcgt gtaccgcgag aactccaact ccccgctg 357

<210> 18379
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H2

<400> 18379

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tgcttcagag cgtgggcgct gcacgcccc gctggcagca aggacaggct cctcgtcggc 120
aacctggtgc tgccgtcgaa gcgggcgctc gcgccgctgt ccgtgggccc cgctgccacg 180
cgccggccgc ggcacgtctg ccagtccaag aacgcagtgg acgaagttgt ggtggcggac 240
gagaagaact gggacggggt ggtgatggcg tgcgagacgc cggtgctggt ggagttctgg 300
gcgccgtggt gcggggccgtg ccggatgata gcgccggtga tcgacgagct ggccaaggac 360

tacgccggca agatcacgtg ctgcaacgtg aacacggacg aaagcccaac gtggcgtc 418

<210> 18380
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H4

<400> 18380

acgcgtccag ggcacttcgt cgaccgcgag ggcgcgggga agcacatcca ggcggggggcc 60

aagaaggtgc tcatacacggc gcccggaag ggcgacatcc ccacctacgt 110

<210> 18381
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H5

<400> 18381

accacgcgt ccgcgcgcga ccagcgccag ccgcgcgcgt ggtcagaagg aggtccttca 60

ccgtgcgcgc ctctctccgc aaggccaccg gcaccgccgc cgtggcaatg gctgccagcg 120

ccctgcttgc cggcgggtgcc atggcccagg aggtgctgct gggcgcaggc gacggcgggc 180

tcgtcttcga gccagccag ttcaccgtca aggcgcgcga caccatcaca ttcaagaaca 240

acgccggctt ccgcgacaac gtcgtcttcg acgaagacga ggtgccgagc ggcgtcgacg 300

ccaccaagat ctgcgaggag gagtacctca acgcgccagg cgagacctac tccgtcacc 360

tcaccgtgcc gggaacctac 380

<210> 18382
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H6

<400> 18382

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caagctcact ggcattgtcct tccgggttcc caccgtggat gtgtcagttg ttgacctcac 120

tgtcagaatc gagaaggggg cctcttacga ggaaatcaag aaagctatta aggctgcttc 180
 tgaggggccca ctcaagggtta ttatgggcta cgtggaggag gatctggttt ccaccgactt 240
 caccggtgac agcaggtcga gcatcttcga cgccaaggcc gggattgccc tgaacgacca 300
 cttcatcaag ctctgtctctt ggtacgacaa cgagtggggc tacagcaacc gcgtcgtcca 360
 cctgatccgc cacatgttca agacc 385

<210> 18383

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H7

<400> 18383

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 atttgtcat ctatatcttt tcgatcaaaa aaaaagaaaa aaaagaagaa aaaaaaaaag 120
 aaaaaaaaaa aaacaaaaaa ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaggaa 180
 aaaaagaaga gaaaaaagag agaaaaaaa gggggggggc ctcaaaggtg tcaagttgga 240
 ataagcctga taggaggagg cagagagctc aaaaggggca ccaaatgca agtccagggg 300
 gtgcttttta aaagcgtcgg acggggaaaa acccggg 337

<210> 18384

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A1

<400> 18384

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 cctcggaggg gccatcagc tgcgggcagg tggcgtcggc catcgcgccc tgcattctct 120
 acgcgcggcg ccagggtcgc gggccctccg ccggctgctg cagcggcgctc aggagcctca 180
 acaacgcgcg ccgcaccacc gccgaccgcc gcgccgcctg caactgcctc aagaacgccg 240
 ccgcccggcg cagcggcctc aacgccggca acgccgccag catcccctcc aagtgcggcg 300
 tcagcatccc ctacaccatc agcacctcca acgact 336

<210> 18385
 <211> 146
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A10

<400> 18385

acgagaaatc atcaaagatg cgtatatata tagctccggc cgatcctcct ctctagctgc 60
 atgggtatgta ggtgggtgtgg tccttggttc atttcactcc agcgggtgatc agcgccgtgt 120
 ataaatgtaa ttcctctgct ttgcac 146

<210> 18386
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A12

<400> 18386

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 ctacaagcat agaacaatgt tgatgcacta tgatgtggat agaagtgagg accggcaacg 120
 tgaggagggtt cagtcagcat acacacggga cactgacatt ggtgaggaaa tgatcataag 180
 tagcgaagag cagaatgatg aaaatgaatg gagctgggtg aaccaagata gagatggtgg 240
 tcctcctgct gaatcgggtt cttcacttca tatgacacac caagtccttg aagatgagat 300
 accagaatta tcagaacttg gcaaacaact tgaggcggac gaatccactt ctggttaaaa 360
 agaccaggat gtgattgtct tgccgta 387

<210> 18387
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A2

<400> 18387

acggagaaag ataggagtca attaatttgc ctgttctgct tgctgctgac cttgtgagtg 60
 agccgccggt cttccccttc ctgcgccagg ggaataata aggcagccac agccagggcc 120

gccccgagga agaagatgag cggaggaggc gtggacggag ctccggtcgc cgagttccgg 180
cagacgggtga cgcacggcgg ccggttctctg cagtacaaca tcttcggcaa cctgttcgag 240
atcacgcaca agtaccagcc ccccatcatg cccatcggcc gcggcgccta cgggatcgtc 300
tgctcgggtga tgaactccga gacgaaagaa atggtggcca tc 342

<210> 18388
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A3

<400> 18388

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aatgttcatt gtaagacctg ttggaggcca cagacaagtgc cgaccttctg atggcacaag 120
tttcacattt gtatacagtg tctgcttget gttagcctct tatcttatgg gcgtcatgtt 180
attggaagac cttgttgact taagccagtc agtgactgtc gtgttgaccg tgattctaata 240
catgttttcta ttagttccaa tagtcattcc agttctactc agcttctttt cggatgatga 300
cgagactttg tatgcactat tgttg 325

<210> 18389
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A4

<400> 18389

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agtgtggacg agaccatgag gaccttcag gcattgcagt acgtccagga gaaccagac 120
gaggtctgcc cggccggttg gaagccaggg gagaggtcca tgaagcccga cccaagggga 180
agcaaagagt acttcgccc cgtctagact cgccgtcttt gacaagcttt gctacgtttt 240
tgtcatggtg cccgctaagc cccccggcag taggttgag ttttgaggag ctccggtttt 300
tacaaatctc ggtgctctga acccgacgta gtacccctt tggcgggtgtg caccgccgatt 360
gagtgcggtt ctttgccacc tt 382

<210> 18390
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-A5

 <400> 18390

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 ctacccccgg ccaagctgcc gctgcagggg cgtcggttcg ctagcccaaa aacggcggga 120
 cgtatcagtg tcaggggtccc tccggcgcca gcgcagcaag agcagcaggt gaaggaggag 180
 gagggccgagg cggcgagcgt gccgccgccg caggccgcgg agaaggaggc gaggaagggg 240
 gacgcgcagt ccctgccgcg gcagcctttg gcggagagca agaacatgag ccgcgagtac 300
 ggcgggcagt ggctgagcag caccacgcgg cacgtccgca tctaacctgc gtacatccac 360
 cc 362

<210> 18391
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-A6

 <400> 18391

 acgcccacgc gtccgcccac gcgtccgccc acgcgtccgg acgacgatca cacacgcaga 60
 agatcgagtt cgttcgatcg tgaccgtgac gcaggaagct ataagctaac caagacagga 120
 ataataaggc cggagtcgac ggtggcgagc ctctctgtcc cggtgacgac gacgaccttc 180
 gcggcgggcg gcggcaggcg acgtgctgat cgtcgtcccg aggagggcg gcgccaagcg 240
 cgtcgtcagg ttccccgcgg cggcgcgccg cggctgcggg cggttggtca ccgtgcggtc 300
 caccgggccg gccacgccgc ccgagatctc cgacaagggtg tcggagagca tc 352

<210> 18392
 <211> 278
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-A7

<400> 18392

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cgtgagctgt tccagaatga tatgagtga tggaaacagg gacgctcctc gaagaaaaac 120

aacaatttcg cgcacaaaac accaaacgct tttaacagca cagcaagata taagcgccgc 180

aaacagaata ctcgccatc cccggattta ttacattct cgtctcagtt ttgactgacc 240

gaccttgacg aaattctctg ggatccagat gtttccag 278

<210> 18393

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A8

<400> 18393

acgcgcattc gccgccagca ggtgccaccg ccattctctg tctctctctc tctctcaagc 60

aacgccccgc atggcgacca tagccacgat ggccctgctg aagcccccca ggatcgtggc 120

gcggtcggcg ccgcggtcca ccagcggcag cgtctcgctg cgcgtcccg cgcgggcca 180

gaaggccgcg gtgtccgctg ccgtgtcgtc cgcgtggcg ggcgcttct tctcggcgct 240

ggcgtcgtcg gacgcggcgc tggcggcgca gcgcgtggcg gacgtggcg cggcggccga 300

ctccgggagc gacaaccgcg ggcagctgct gctcttcgtg gtggcgcccg ccacgggtg 360

ggt 363

<210> 18394

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-A9

<400> 18394

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tgttggaagg gtgtattttg tgatcctcga gatgtcccct gttacatata ttgattcgag 120

tgctgttcaa gctcttaaag acttgaccca agaatacaaa gcacgccata ttcagattgc 180

catagctaac ccgaaccggc aagtgtacct tctgttgtca agatcgggca tcattgactt 240

ggtaggagct ggggtgggtgct ttgtgcgagt gcatgacgcc gtgcaagtgt gcctacagca 300
 cgtgcagaat tcattcttcaa atgcgttgaa gctaccctg caggcatcag gcgtgttgac 360
 cgattctggt tcgactccta aaccagag 388

<210> 18395
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B1

<400> 18395

atattacaga cgcactttat tcataagttt ccttaatgac tactacaagc gatcgacccc 60
 accaaggcca caactctcac actggtttat gatacaataa tactgggtaca tggttacaaa 120
 aaaatgcaca acccccgag ctccatgtat atcacaagcc ggcagagctt atgcatatga 180
 agctgcacat gcatgcttat gtatatgttt gtgttatata tggatgtata tataacttga 240
 ccgtacgtgt acatatatga tgtatatagt ttagtgacga tacatcatat atatacagta 300
 gagtagcagt acatatgcag atgatga 327

<210> 18396
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B10

<400> 18396

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 taagatacat tcattctactg ctogaacacc tgatcgcaact gccatagaca atttattaga 120
 gaatcaaata ttcattcattt ttcgtggact tgaattctct agtttagccac atgttaaccg 180
 tgacagtatt cgacatccac acccgtctcg cgtgctatga acttaccgtg accacttggt 240
 ggtaggtga cggcttctga gcgcgacgag aaggatgtta ttcggcgagt gcagcttgga 300
 cgaagaacag acagaacggt ccgcgcgaag atgtttgacg gcggtgtgct tccgcg 356

<210> 18397
 <211> 367
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B11

<400> 18397

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tggccttccc accagaccct gcttctacca gatcgacgtc gacactgccca ccgggaaggt 120
catggggctg tcatgaattg aagtcctga tggatcatt cagagaacgt aaattcgggg 180
cattcctgga togagttaa taagagccgt tcctggcatc ctgcaagtgc agtggcgctt 240
ccttttttta cttgattttg taaaccggag actgtaaatg tgcttgaacc gtgcttttag 300
acccatgcct caaatcctgc atccaataag tgtctttgaa cagcctgagg ctgctgagac 360
tgttgac 367

<210> 18398

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-028-Q1-E1-B4

<400> 18398

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cccgatttca cacgtctctc tcgtccgag ccctctcccc acgtgctcgt ctctctgccg 120
ccctcccttt cgcctccccca ctcgtttcag gcgggtacgg gacctgggag ggcacttcaa 180
tctcgtccgc gggaagggtg agacggcggg ggctggaggt ggtgtgagag gccacgaccg 240
ggcggcgggc ggactcgggt aagaagaggg agcgccagaa cgacaagcac cgcacccgca 300
atcacgcgag caaggccgag atgcgcacta agatgaaaa 339

<210> 18399

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B6

<400> 18399

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cgagctagc taggagcagc agcagcggcg gcgatggcgg cctccatgat ctctctgtca 120
gctctggcgg tggcgccctca gggcctgccg cccctcggcc gccgcgcctc ctctctcgcc 180
gtcgtctgct ccaagaagaa gatcaagacc gacaagccct acgggattgg ggggtggcctg 240
accgtcgacg tcgacgccaa cgggagaaag ggcaagggca agggcgtgta ccagttcgtc 300
gacaagtacg ggcggaacgt cgacggatac agcccaatct acaacgagga tga 353

<210> 18400
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B7

<400> 18400

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tcctgtcaga gtaggtcaga agattacagc tgggtataact gacctaatg atgttgagtt 120
cgatgttcag aggcgaaatc ggtcattttc cacatgatgc aataagcaag aaagtaatgg 180
tgaatacaaa gtggcagtac tcgtcctcga ccttgaatcg cattactgga cctgcagcca 240
ttgcagatag ctcttgagcc tttccttgat ttaatttacc tgggttttga gagactatct 300
atgaatatgc taactcgttc gtgaagtatc tttttgtccc aaaaaaaaaac aaacaaaaa 359

<210> 18401
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B9

<400> 18401

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gagggacaac agccatagcg gcggtcgccg cgggcagcgg ttcgcgcgcg gattcgatgg 120
cctgcgcttc atcgagacgc tcgtcacggc gcaccgctga agcgacggac ccgcgatccg 180
cctggctgcc tatgctccgg tggtaatctc cccgcgcgca tgattcggcg attcgttggt 240
gctgggtggcg cttaggccac cgagttttgt tagaacaaca atttcaggct tccccttttc 300
atttggtgct gtgctgttcg tcctcttggt gatgtccgtg gtcggtggac attcattccc 360

cttttttttag cct

373

<210> 18402

<211> 313

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C1

<400> 18402

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agtgcatacc gacaaggaaa tgaaagaaca ctgactggga aacatgacac tgcgagcatc 120

ggaacgttct catgggggtgt ggcaaaccgc ggctgctcta tccgtgtggg gcgagatacc 180

gacgcaaaag ggaaagggtta cctgcaaga cgtcggccgg catcaaacaat ggacccgtac 240

actgtgactg ggctactggc cgagaccacg atcctctggc agccatccct cgaagcggat 300

gctcttgccg cca 313

<210> 18403

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C10

<400> 18403

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gttacttcat ccaggggctc gtcaccggcg ttggcccgtt ccagaacctg ctcgaccacc 120

tcgccgaccc cgtcaacaac aacgtgctca ccagcctcaa gttccactag aacgttggtg 180

catcagcata cctgctgccg ccgccgccag ttgtttgctg tggaaagcta gatgcatgcg 240

tgttgtaaag gaacctgaag cgttgcatcg gtcatgattc atgcatggcc agcctgctgc 300

ctgtaacaac aaactagtat tgatcttatt gagaccgaaa aaaacagaag ggggtatgcg 360

caccggcaga aaaaaagggc ggccg 385

<210> 18404

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C11

<400> 18404

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tttcgctgtt ccacactgac atctatgatt tttggagcaa actctgatct gttttgacta 120
gtttacacgt ttgtgtgtgg 140

<210> 18405

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C12

<400> 18405

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aatgtagcat gcctgtatct tcattcaata tactaaagaa aataatcca agtattgatt 120
ctgatgagct gtagctataa aaaagaggta cgattccaca gaatacaatt gatgacaggg 180
tggaatgacc tgtgctgcct tctagacaca ctgatgtcta tgcagctgct cagaagcctc 240
agtgtggcaa gtttgatacc tctggaatag accaaaaaat agaccggcaa gatggcaata 300
ttcaaactg agctcttgtg tgttcattgca atggcacatg atgccttgct ccctgatcga 360
gcttcttgat gttcagatct ctgactga 388

<210> 18406

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C2

<400> 18406

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ggacggtgtg gctccaggac taatgccttc aagatgtaca acgagatgac cagcgctgga 120
ttcaccctt gcataccac gtacaacgcg ttgctgaacg tgctgtcgcg gcagggcgac 180
tgggccaccg ccagtcgat cgtaagcaaa atgaggacca aggggttcaa gccgaacgag 240
cagtcgtatt cgctgctgct ccagtgtac gctaaggggg gcaacctggc agggatcac 299

<210> 18407
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-C3

 <400> 18407

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 ccgtcatcgg gaccaaggcc agcgacacct gctgcccgt gctctccggc gtggccgacc 120
 tcgacgccgc gctctgcctc tgcaccacca tcaaggccaa ggcgctcagc gtcagcctcg 180
 tgctccccgt cgccatctcg gtgctcgta acgagtgcgg caagcatgtg cctccagct 240
 tccagtgcc gtaatcaat cagctgcat tatgtgctac tatgatgtat caccaccact 300
 aatctatata cgcattcatg catcaatgca tgggtgatta acggtttaat acccgccaa 360
 g 361

<210> 18408
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-C4

 <400> 18408

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 tctcgctct cacatacagc agcagccgcc aactctgcag taccacctc gccaacgatt 120
 cctccgccgc aggaccgtgg gacgaggccg agacggagat cctccgcgac gtcgagccca 180
 tcgtgaatat cgtcaaggac atcatccact ccgcgaggta taaaaatggg gaatttttaa 240
 gccagatga tgaagagggt gtaagagaaa agcttctttc tcatcatcct cgtgcagaag 300
 aaaagattgg ttgtgggctt gatgg 325

<210> 18409
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-C5

<400> 18409

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tcgtgggtggc caccggcccg cgccggcccg gcggggggcc catctgcgcg tccatgtcca 180
tgtcctcccc caaccgccc tacgacctga cgtccttccg gttcagcccc atcaaggagt 240
ccatcggtgc ccgcgagatg acccgctcgt abatgacgga catgatcacc tacgccgaca 300
ccgacgtcgt catcgtgggc gccggctccg ccgggctgtc ctgcgcctta cagctcccca 360
aagaaccccg ccttgagcat cgcca 385

<210> 18410

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C6

<400> 18410

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cgcccgtgca agaaagattc agcgtttcct gagccagcct ttccatgtcg ctgaagtttt 120
cacgggtgct ccaggaaagt atgtggagct gaaggaaagc gtgaagagtt tccagggtgt 180
tttggtatggg aagtatgatg acctccctga gcagtcattc tacatggttg gtggcattga 240
ggaagtcatt gctaaggctg agaaaattgc caaggagtct gcttcataag gaggcttctt 300
gcttgttcaa ccctgtagaa gttccatttt tggattttta gcgttttagtt atgcctttcc 360
cagttag 367

<210> 18411

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C7

<400> 18411

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accggccagc cctggagctg cttctcggct cttccaacat cccctgcttg ctaccgttca 120

gttcagtctt cagttatccg agtgaccgtg gatcagccat gcctgcgctt ctagtgaaca 180
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 gagcagcaag cgctcgccac ggccacaggt gccgagccga agcatccggc agctcgtggg 300
 tgtcggacta cgacctgtac gagctgctgg gcgtggagcc gtcctcg 347

<210> 18412
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-C9

<400> 18412

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 gaacatggaa gtgctgctgt tgatcttttc aatgcagcac atgggtgttg caaggccatt 180
 caagaaatgt gcatatcaat ggtttgtaa tctaagtaac tatgtgagct gtttaaatgtt 240
 gaaacttatt ttaccatttt gtttatcatt tctatgttct gattgatttt gcattattgt 300
 tctgtctact gaaagttcaa caaaaacaaa gatctctgtg caattcttgg ttataactcc 360
 cttcagaata tagctcttgt atcacgaag 389

<210> 18413
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D1

<400> 18413

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 tgctcaagcg cttgttctt agctctggcc acaccagtct catctcccta ctactcgtcg 120
 ttcgacccat gcattccagt cgttacctgg ccgtgcgggt gcagtgcagg ggcggccatg 180
 ggtgcccagc cgaccactac cgccttgac tctgtctggt tctccgcgtc cttgctgtgg 240
 agcctcagtt gccgtgcctc tctgtctgcc catggcgctc cggccaacct cgccgacct 300
 gtgcgtgcct caacgcgctc gcacgccctg cttcctggtc aacgattttc cctgggagc 358

<210> 18414
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-D10

 <400> 18414

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 aactagagcc attatgtgac accatgtcac gtgtgtttga tgaactcctt ctatctgccc 180
 ctgccaaggg agagaagaga atagacatat tagtgtgtgt agattagatg tgcattggcat 240
 ccatggaaat ggtgaaggat gaaccagggtg ccataaaccg tgatgtacgc tggcgggtgcc 300
 gtatcctgtt cttgatcagc ttgacagcga cgggga 336

<210> 18415
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-D11

 <400> 18415

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 ctccacgtct gtcaatgtta gttttacaac atcgtctacg gacaaacccc ccccccccc 120
 cccccgctat ttgattgttg ctaagccttc gtacgacgtg taaatggttt ggtacaatga 180
 gtgctgacgac tacgattgag caccctctta cctagtttgc aaaaaaacag tgtcccatgg 240
 actgtctgtt gtccctctat ataaatgtcc aatgaagctt gctaaaaaca gaaagtagaa 300
 taacacaggt catgataaaa taaagggcgg cc 332

<210> 18416
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-028-Q1-E1-D12

 <400> 18416

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 ttcccattct tcctcgccgc gggggtcgcc tgagatcaca taaacaatgg tgaaggctgt 120
 tgctgtgctt ggtagcagcg atgggtgtcaa gggcaccatc tttttcacc aagaggggaga 180
 tggccctacc gctgtcaccg gaagtgtctc tggcctcaag cctggcctcc atgggttcca 240
 tgtacatgca cttggtgaca ccaccaatgg atgcatgtca actggaccac actacaatcc 300
 tgcgagcaag gagcatgggg caccagaaga tgagaaccgc catgctggtg atcttggaag 360
 cgtgacagct ggagcagatg gtg 383

<210> 18417

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D2

<400> 18417

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 acacttcac caccagcggt tgtactcgtg catggccttc gttcgccatg gatgcatgct 120
 ctgtactctt ctacaagcaa attctgtac atgggcgcta gccaacgttg tgtacttgtg 180
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<210> 18418

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D3

<400> 18418

agcccacgag tccgcccacg cgtccgcaca ctctcgcca tcacataaaa ccagtgcgaag 60
 cagaagcagc gcaatggcga gcagcaccat ggccctctcc tccacagcct tcgccggcaa 120
 ggcagtgaac gtgccgtcgt ctctcttcgg cgatgcccg gcgacgatgc gcaagacggc 180
 ggcgaaggca aagccggcgg cgagctccgg cagcccgtgg tacggccccg accgcgtgct 240
 ctacctgggc ccgtgtccg gcgcgcccc gatctagctg acgggcgagt tcccgggcga 300
 ctaccgctgg g 311

<210> 18419
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D4

<400> 18419

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 gttcaacaag ctcaacgacg tcacctcctt cgacttcatac ggcgaggcct acttcggcgt 120
 ggcgcccctcg gcgaccgagc tcggcaaggg cgggccgagc aaggcggcca agtggctcat 180
 ctggcagctc caccgcgtgg tcacgctcgg cctccccatg gtcttgagg agccgctgct 240
 ccacacgttc cactcccg ctttcctcgt caagggcgac tacagggcgc tgtacaagta 300
 cttctccacg gtgg 314

<210> 18420
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D6

<400> 18420

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 gctgccaaaga actgctatga ggacttgatg gctgctggaa tactggacgc aacaaaggtt 120
 gtgaggtgtt gcattgagca tgctgctgta gttgctaagt cctttctcac ctctgatgtg 180
 gtgattgttg aggcaaaaga aggcaaacct attcgaataa gacccccaat gcctcctagg 240
 cacttaattc cccaatgcc tgcttcaatt tcaggtattc gagtgtagca gtcgtccttt 300
 ccaccaagaa tcagcctcaa cacaacaaga ctacgggg 338

<210> 18421
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D7

<400> 18421

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gaagacggcc cagggggcgg cggcgcacgc cgcgctcttc tgcttcactc tcctcctcgc 120
gctcagggtc gacggacgca ccgcatactc ctggtggata atattcagtc cactatggct 180
ctttcatggt attggtgcac gcggaagggt ttcaatgcct gcccttctt tgctcatgg 240
ccgtcattgg gcaccatgtc attcgattgt tgcggcgctt ttactaattg cgttcgagct 300
gcttctttgt atatatcttg aaagcataag agttagaaat catccatctg ttgatctgaa 360
gattgtgttc ctteccct 378

<210> 18422
<211> 347
<212> DNA
<213> Zea. mays

<223> Clone ID: LIB84-028-Q1-E1-D8

<400> 18422

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caagaaggaa agaagctagc gcttatagct tgtcagccat ggccaccgcc gccgcgtcta 120
gcctcctcaa gtctcctctc gcgggctccc ggctcccggc cgccacgcgg accacaccgg 180
cgctcctcgt ggtggccacc ggcccgcgcg gcgcggggcg ggggcccatc tgcgcgtcca 240
tgtccatgtc ctctcctaac ccgccctacg acctgacgtc ctcccggttc agctccatca 300
aggagtccat cgtgtccgcg gagatgaccc gtctctagat gacggac 347

<210> 18423
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D9

<400> 18423

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tcgtctcgtc tctgcgctgg gaacgccggc tgccatggct cagcagaaga acgcgcacgt 120
gcccaagttc ggcaactggg acagcgacgg caacgtgccg tacacgtctt tcttcgagaa 180
cgcgcgcaag ggcaaggag cgggagccgc cggcgggcggc aggatgatca accccaacga 240

ccccgccgag aaccgcgagg ccttctccgt ggccgcgccg tcgccgccgc cgggccgcca 300
cgagcgccgc ccagcgacg cgccgccgcc gccgatgtcg cccaaccct actacgcagc 360
cgggtcgccg taccaccgcc acgcc 385

<210> 18424
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E1

<400> 18424

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ttgtgggaaa tgtgtgggtg ttgtgtggac attcttccgc ccattgacga cccaacctgt 120
acaggttgtg catagccttc ctcactttca gctgcattgg ctatgcgatg cccttcaccc 180
tctgcgcgct gatatgctgc tgcttaccct gcataatctc cctgatgggc ttccgggaag 240
atctggacga aaacagaggt gctacttcgg atgcgatcaa cgccctgggc acatacaggt 300
tcatgtcaaa gaagcctcgt aacggggagg caaaccaaag ttgccgtgga gtcctttgcc 360
ctggaacgga aaagg 375

<210> 18425
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E10

<400> 18425

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ccgagcggcg gcctccgccg ttgaggtggg cggcgtaaag atcgcgcgcg aggatgttgt 120
gaaagaagat gacctaacaa acaacgtgcc agacactatc tttgcaaga ttggcctgca 180
gctgcacagg agggataacc atcccccttg gattctgaag aacacaattt atgattactt 240
tgacaagaac ttactggac agtttgacaa gtttgatgac ctttgcccc ttgtttctgt 300
caagcagaat ttgatgatg tcttgggtccc ttctgatcat gtaagccgga gttacaatga 360
cacatattat gttgatgatc aaacag 386

<210> 18426
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E11

<400> 18426

acgcccacgc gtccgctcca ctatctgaac aaggaggaca ggctgcttcg ctggctggtc 60
gtgaagcaca gagacacggt atacgggttg gagttcttga acgcggatgg cgggagggac 120
gagctgagaa gtttcagcca tggtcacacg aagggcgact acgatattga aattgactcc 180
gatgacgaag actccgacga ctccgacgac gaagagtacg caatcgagga ggaagaggaa 240
gaggaggcgg cgaacgatga ggagaagaag tagaactgtt tggccagggt tctgcagtct 300
catctgtatt ggcagatgcg cgttttctta gaaatcaaatt gttctctttg taacatctgc 360
gactttttat aaaggctgta gggatatgg 388

<210> 18427
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E12

<400> 18427

acgcccacgc gtccggggccg gcaccgcctc cggcggcccg tgagaggagc gacttcacca 60
aggcacaaga ggagccggtc aagaagagga agatcaagtg cgaggtgaag gtggaggagc 120
aaggagctgg cttcggcgat tacgacctcg gccacggcga cctgtggatg gatctcaacc 180
cgggaggggt cctgagcttc ttggaggagg agggcgtgtt ccagggcctg gctgctgctg 240
ctgaccacga cttcttgacg ccctttggct cgtccaggat ggatttggtt ggtgaaatgc 300
acgcgtcttg acaatggaga agcaagtaga agcaagtgtg cttatatattc agacagtgga 360
gactggagaa gcaagtgtaa gcaacaccag 390

<210> 18428
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E3

<400> 18428

aattcaaggc tgcaccgacc cgtaagctcc gaactagaca gcctgggaga ggagtcctac 60
aaggacagca ctctgatcat gcagctcctg cgtgacaaet tgaccctatg gacttccgac 120
accaacgagg acgccggaga tgagatcaag gaagcagctg ctgccccaa agaatccgcc 180
cccgagggcc agtaagacgg atccgatctc ccgacctgat gcgtgtctgc tgatgtcagg 240
gagtttacca agactgtgcc gttcttgatt tctgatagct tatcttctag tacacctcgt 300
gttgtttctc tcgtcacggc gccggtgact gttcgcc 337

<210> 18429

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E4

<400> 18429

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ctaaattcag atcctgaaga tcaagaacca cagacattca agacagctcc agaagaaacg 120
cgagatcagt tggctgacgc actacatcaa aggtgtcgcg caatggctga gagtgcacac 180
ctgcagctcc gatgaatccc gcgacgtatg gccactagac ccgctcgagt cgcgcgacct 240
gaagcgtgcc cgctgaggtc agggcggtta cgagcactgt 280

<210> 18430

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E5

<400> 18430

acggcgagcg agagcagcac aactgcacg cagctagcta ggagcagcag cagcggcggc 60
gatggcggcc tccatgatct cctcgtcagc tctggcggtg gcgcctcagg gcctgccgcc 120
cctcggccgc cgcgcctcct ccttcgccgt cgtctgtctc aagaagaaga tcaagaccga 180
caagccctac gggattgggg gtggcctgac cgtcgacgtc gacgccaacg ggagaaaggg 240

caagggcaag ggcgtgtacc agttcgtcga cggatacagc ecaatctaca acgaggatga 300
 ctgggtctccc atcgggcgacg tctacgtcgg ttgaaacaat gggcctctg 349

<210> 18431
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E7

<400> 18431

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 ccagggaaat ccttcttcca ctggatgatg tcttcttgac tttgatatgt accttctga 120
 gattcaaagt acccagcctg caaaatgtga tctggagcag tacttgaggg aatccctcac 180
 tccacgtatc caagagtttg atatccctaa ttgggtggaag cttaacacac tcaagtttcc 240
 aacctgtcgc aagatggccc gggatatctt ggccatccca atgtctatgg ttagcagtgg 300
 cagctccata ttctctgctg gaactgggaa ccgcattgct gatgactaca gaagc 355

<210> 18432
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E8

<400> 18432

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 gggtattgat ccgaaagata ttgagcttaa aacagcacga tctgggtggag ctggagggca 180
 gaatgttaac aaggtggaga cggctgttga tcgtattcac aagccgacag gaatacggat 240
 attctgtacg gaagagagat cacagctaca gaacagagag cgggcatttc aattgttgag 300
 aacaacactt tacgagataa aattaaggg 329

<210> 18433
 <211> 370
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F1

<400> 18433

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tgaagaaaca cccagacctc tgaaggatgt catacttctt tcatatgaga tcatccacaa 120
aaaggatcct gctgcagttc aacgaataaa acagaaggaa gtatatgaac aacaaaagga 180
acttatttta ctcggggaac gtgttggtgt tgtgacactt ggttttgatt tgaatgtgaa 240
ccatccttac aagcccttgg ttgaagcaat aaaaatattc aagggttctc aaaatgcact 300
tgctcaagtt gcctggaatt ttgtcaatga tgggctccgc acttcacttt gcctgcaatt 360
taaaccgcac 370

<210> 18434

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F10

<400> 18434

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aaaatattat tctgatttga actcaagaat agggagaaat tgtgaattgt gaaatataat 120
gcaacataca ctgaaacata ttagagtcga ttaggctaga gtatgacatg ttttcccttt 180
caagaatgga tacagaatga ctcatatgaa tgaagacagt gcttgttttg tagaagtcta 240
aatggttacc tatgtggcat ctgatttttg gttctagaca tatttccgtt aatatggagc 300
tatatatgaa gatgtgaaat ttagtttagt tgttttatgt ttctgtctg ttgagttcta 360
gtcgagtcca cccacagca t 381

<210> 18435

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F11

<400> 18435

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gcagctagca gttgagtgtc cgcccttgtc gtcagtcgag tcgagcgatg gagaagacga 120
 cggtcgtgct gtacccgggc gcggggtcg gccatctcgc gccgatgctc gagctagcca 180
 aggcgttgtt ccgccacgca ggtgaccagg tggacgtcgc catcgtggtc gtcgagccgc 240
 ccgtctacgc ggacggcttc gccgccacgg tcgcgcgcgc caaggcctcc aacgcctccg 300
 tcgcctgcca cgtgctaccc ccgcgggctt ccgacggcgg ccgcgagcct gacgaccccc 360
 tgacccgact gctccgcttc ctccgcg 387

<210> 18436

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F12

<400> 18436

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 acgatccgga tctctttctc ccagatgcag agtatataag ccacctcaag ggaaagctca 180
 tgccgccctc gcttgccacc cggcgagcac tttttaggaa gcatttcaga ctaagatgtg 240
 aatcctctgc gccattctcc aagatatgct gtctgagctg tacctcccc tgaccttcgg 300
 gttttctttt cactctacac tggccttgca ccaaagggtt tctgtgtttc tttccaaatc 360
 ctgttggcta ggttatcaaa ggacattta 389

<210> 18437

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F3

<400> 18437

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 actgatgtct atagtagtgc tattcatcag tttactgctt tgtaacatct gtaactgacc 180
 gtgtactctg tatctaccta ttccaccgaa gatgtaccgg gtaccatcct ggccgtacag 240

ctcctgcggg

250

<210> 18438

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F4

<400> 18438

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gcgacctcca cgtggtgcc a ttgcgcggca acgagcacc gccaccagg atccaggttt 120

gtgctgcgag agcgcctatc cattcaccat gattaatttc gtgctcctga tcagccgcca 180

gggcaagggtg aggctcacca agtggtattc tccttacacc cagaaagaga ggaccaagggt 240

cattcgcgaa ctcagtggac tcattcttac acgagggccc aaactctgca attttgttga 300

gtggagaggt tacaagggtcc tataccggag gtttgccag 339

<210> 18439

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F6

<400> 18439

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aatgcaacac atattgagaa gcttgctttt ggtatgcgcc attctcttgt actactgaaa 120

gacaattcag tgtatggatt tggctcagca agacgaggac aagttggtaa atgtgcttct 180

aggatccaaa aatcatataa tgttcctaga ctgattgatg gttttccaaa ttgtaagata 240

gtaaatatat atgccaatgg cgatcacagt gctgcattgg acgaatctgg tcactctgtat 300

gtctggggaa gagcattaat tggacaacat gatgatgat 339

<210> 18440

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F7

<400> 18440

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ttactcagggc aagccccggg gcatgcaacc ccttccttat gtttttaaat aattttcgca 120
cactttaagt ctagtgaaat gtgcattagg tttataggag ttgcttgaaa ccctttgatg 180
cattgccttc cttgatatcc ataccttatt agatacttct ggtgaagtat caaaatatga 240
tttacaaaaa tgcttagccc tgctcagatc ttgtggatag aggttgtctt ttgcgttaag 300
gccttgctca ggggttatcc tgaggaaaga tggcttcac ctgcaagaat aatttcaatg 360
aaaaccttgg tggaatctaa cggaaa 386

<210> 18441

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F8

<400> 18441

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ggtcaaccgt atcctcgggc atccgggtgc atgcctcagt tgccgccttg gagctcggtg 120
tgcccggtgc ggccaacccc gcaagcccggt ccttcctccg ctataagcct ctaatcgctt 180
gtgaccgtgc ccctaccttc ctttgaacca gtccccgaga gctccgtgac catggactcg 240
ccaccgctaa acagagagta cggggaaagc gccgccgga aggcgtggcc ggccacatcg 300
agcgggacct tggtgactgg gatggttgc 329

<210> 18442

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F9

<400> 18442

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gtacaactat gaacaaagta aagctgtgcg ggtcagtga cgtgacgtac gatgcaagtt 120
tactgagctt ccaaaaatta acgttgacgg atccgacttg ctgggtggtg gatttgactc 180

cttcgggggt ggatgtggtg ggtatggtgg ctcaaactat gggcgctcac cagggggctt 240
 tggtagacgt ggcggtagtg gtggtttttg ccgatcaggc ggtggatgat ttggcacttc 300
 tgggttttggc cgctcaagtg ctggatttgg tgactcggga tttggacgct ccgggggtgg 360
 acggttt : 367

<210> 18443.
 <211> 199
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G1

<400> 18443

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 agctgggcat ggtctatgcc ggacgtcgaa agacggtaag gtcctcttcg actcgtgggt 120
 ggataccgac ttcatgaacg gagatgactc aaggccgttg gcatgatgat catccggaac 180
 cagcgggtgct cagtgtca 199

<210> 18444
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G10

<400> 18444

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 ccatgctccc aatggccgct caccacacca ccacgccggc cttgtccccg cgcgcccgcg 120
 tctcgccgca caggcctccc atctctctccc tggcggacc ctcgtctctc cctgcccac 180
 gcatcgtcag tttcaaaagc aggaggctgc cacttcgctc tctccacatc gccgctgocg 240
 ctgccgccgg ggcagaggaa gaagaggcgc aactaggtgg aagtgtgaac gcggctcgacg 300
 aggaggaagc ggagaataag gtggtggtgc ccgagagaca ggacccgatg ctggtactca 360
 agttcatctg gatggagaac aacatc 386

<210> 18445
 <211> 96

<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G11

<400> 18445

acgccccacgc gtccgcccac gcgtccgggt tatgtatgtc tggttataac caaccattgc 60
atcactatatt ttcattttta atattggtgt tacgat 96

<210> 18446
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G12

<400> 18446

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tcttacacga tggagacatg ggccgagctg atactggatt tcttggagga ggtggtcagg 180
aggcccacgg tgcttgtcgg gaactcgggt ggaagcctcg cgtgcgtcat tgctgcatca 240
gagtccagca gagaagccgt ccggggggctt gtctgtctga actgcgccgg tggcatgaac 300
aacaaggcga tcgtcgatga ctggcggatc aagctgctcc tgccactgct ctggctgata 360
gacttcctgc tgaaacagcg gccgat 386

<210> 18447
<211> 331
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-028-Q1-E1-G3

<400> 18447

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gcttgaagat aggttaacac cgcttcttat cctcagttcc aaccccagct cctcagttct 120
cgtcatcgtc ctgcgcgtca gtgtcatctt cagttcccgg tagcagccat ggcgctcggtg 180
cagctgtctg ggccgcgggt ggtggcggct gcgaaaccgg ctgcgttggg cgggctcctc 240

ctgacgccgt cccttgccgt gccaaagggg cggagggcca ngggcctcgt ggtgagggcc 300
gccacgggtcg tgtcacctaa gtatacatcc a 331

<210> 18448
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G4

<400> 18448

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ccggctggcc tggccggcct tcgtcttcc tccgatcccca ggccccagcc actccccgta 120
caagccaaaa agaccagtag gtaggcaggc agttcatcgt cgatcgagca agatgtcggg 180
ctggggcccc gtggtgatcg ggctgggtgct gttcgtgctg ctctcgccgg ggctgctcgt 240
ccagctcccc ggccgccacc acttgggtgga gttcggcaac ctgaagacca gcgccgtctc 300
catcctcgtc cactccatca tctacttcgc gtcacatcaac ctctcggca acggcaaccg 360
g 361

<210> 18449
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G5

<400> 18449

acgcagaatc agaccaccac acgcccagg cccgactgca agcgccctgag cccaagaccc 60
atggccatgg ccgccgccac cgtcgcagcg tcaactgcccg tggcgcaagg gctcgggaag 120
cccctctgcg ccggcagcaa cgcgccgtcg ctccggggccg tcgcggggcg gccccgtcgt 180
cggtcggcca ggaccaggat ggccgtcgtc cgggcgtccg cgcaaaagca gcactcggcc 240
aaggagt 247

<210> 18450
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G6

<400> 18450

aagcattggt gagcaggctg cccgtgagaga tgtgcaggag gcctgtgtac atgatggata 60
tggtctaccc aaattgtatg caaagggttca tcaactgtgtc tcatgcgcaa tccatgcgca 120
cattgtccgg gtccgctctc gtgagaacag gaggaaccgt gagccccgc agcgcttcag 180
acgcgggat gatggcccaa ggcctgggtc gggcccgccg cggccaggcg gtgcagctcc 240
tgcagctgca cctgctgctg ctccctgtac ctaagttctg gaattagttt cggggcttag 300
ttttgtgaaa cattacctgt ttgagaaac cattgttact gtatccccctt gatgttcaac 360
gttttttagta aaatttgtgg ttctgaaaaa 390

<210> 18451

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G7

<400> 18451

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gagcaaattc aggattctgc tgtcatttat cggcacaacg ttccttcttg tgtctgtttg 120
ctgcgccctg ttatcgaagg atggtttatg tctttgttcc ctttggagca tttcatttgc 180
cagtgttaatt gcgaaatgcc tgcgatgtga ccctgtgaag aaagagtcac tggatgatcat 240
gccgactttt ggaattcaat tagagcaaca cttttggagt ggaagagttc atcgcaaatt 300
tgtgccatt ggcaagattc taagaccag 329

<210> 18452

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G8

<400> 18452

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agctgcgac tgatcgacat ggctgccgcc accatggcta tcacctcccg cgcgctcgtc 120

ggcaagccgg cggctggcac gagggacgtc ttcggcgagg gccgcatcac catgcgcaag 180
accgcgcgcca agcccaagcc ggcggcggtcc ggcagcccat ggtacgggtgc cgaccgcgtc 240
ctgtacctgg gcccgctgtc cggctcgccc ccgagctacc tgaccggcga gttccccggc 300
gactacgggt gggacaccgc ggggctgtcg gcggaccggg agaccttcgc caagaaccgc 360
gagctgggag tgattcaatg gccgct 386

<210> 18453
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-G9

<400> 18453

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ggcaaattga acagggattt gtttggcttc caaatggttt gttggctcta aaatagtcag 180
aatcacatga tatctgtgct atagatatga acctcggtgg tttctccac attaggaaag 240
ctggaagagc cttttgaact cttttttttt gctaacagtg gtgttatggt gaaacagagt 300
tttgtgtgta tgtaccaaca gctaaaatgt aaacatgaca ttatcatagt tgagtacagg 360
aataattatc tcttatatct tatt 384

<210> 18454
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H1

<400> 18454

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tccaatatgt ttctgatctg gttgagggtc tgatgaagct gatggaaggc gagcatgtgg 120
ggccattcaa cctgggtaac cctggcgagt tcaccatgct tgagcttgcc aaggttgtcc 180
aggacaccat cgacccaac gcacggatcg agttccgcaa gaacaccag gacgaccgc 240
acaagcgcaa gcccgacatc agccgcgcca aggagttcct tgggtgggag ccgaagatcc 300

ccctgcgtga gggccttccc ctcatggtct ccgactttcg caagcgcat

349

<210> 18455

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H10

<400> 18455

acgcggacgc gtggggcgacc acgtcatcaa tccggggccac tggaccgagg acatgcgcga 60

cgacgcgctg gaacctgccc acctcttcag ccgccacctc acggtcgtcg acgtcggcgg 120

cggcacggggg ttcaccacgc tcggcatcgt caagcacgtc aaccgggaga acgtcacgct 180

gctcgaccag tccccgcacc agctcgacaa ggccccggcag aaggaggccc tcaagggggg 240

caccatcatg gagggcgacg ccgaggacct cccgttcccc accgactcct tcgaccgata 300

catctccgcc ggcagcatcg agtactggcc agaccacag cgggggatca aggaagccta 360

cagggtcctg agatttgggt ggctagcttg t 391

<210> 18456

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H11

<400> 18456

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accaggagga ctctggttct cttctgttca accttattgg aaatttggca ttcccgttta 120

tccttatcgg tggctctgtt ttactttcaa gaagggcaca ggggtggcctc ggtggaccca 180

atggtcctgg ctttcccctt ggttttgggt aatctagggc caagtttcag atggaaccca 240

acactggtgt tacatttgat gatgttgctg gtgtcgatga agcgaagcaa gacttcatgg 300

aagtggttga gttcttgaag aaaccggaaa ggttcactgc tgttggtgct cgcattccta 360

aggggtgttct gcttgtcggg cctcctgg 388

<210> 18457

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H12

<400> 18457

cgaaacacgc gtacgccac gcgtctgcgg acgcgtggac ggacgcgtgg gtgcgattca 60

ccaccaagag tagtttcttg ggggtctata atagtaagga agaataaaga gccacggtgc 120

ttgacgcca catgcgttgt aggcattgaa cgggggcacc tagcttggtc tacagcgtg 180

tctattttga attggtgcga ctttgttgct ctttttctc ccccttata gcttatgaaa 240

caagatcctt ttgatctgtg 260

<210> 18458

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H2

<400> 18458

acgcccacgc gtccggaaac ttgattactt gcaatcaaaa ctcttgaga atgtcttttt 60

cagcctctcc aaacccttga aaaagccagg gaaatggctt aatgaggctt tgaaaagatc 120

aacagataac cagggatttc agatctggat agacaaactg agactatggc ttaaagagca 180

aacttatgca gataattcac tgctgttgat agaaagctct tcatgggaca agcttagttc 240

tgatcagtta cctgatgcag atgttcctat ttggatcgct gcacaaaggg cagtctctcg 300

ttatgaagga attttgtcac ctgttg 326

<210> 18459

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H3

<400> 18459

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gctcctctcc tttccccgcc gctgctcgcg gacagcgtca ccaagttcca tgcggcctca 120

acgccagtct cgtgctccgg tagcccacaa cgctacgtca tcacagggtt ggctggggcc 180

ggaaggggag agcacgactg gcgtcggagg acgtggggaa gaacgaacct gagggtgaaa 240
 gcgggtggcgg cagagtcccc cagctcggat gggggaatcg ctgaagatta ttacgctgtt 300
 cttggcggtta tgccagatgc aacgccgaag cagatcaaga aa 342

<210> 18460
 <211> 342
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H4

<400> 18460

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 tggacctgat caagttcttc atccgtttcg tgctcagcgg cagggcatgg gacaacctcc 120
 tggagaacaa gaccgccttc accaccaaga aggactacgg gcgggaggag agggaggcgc 180
 agtggggcac cgcgagagg acgtgcacg ggctccagcc gccggaggcc gccaccagca 240
 cgctgttcca cgacaagaac agctaccgcg agctgtccga gatcgaggag cagccaaga 300
 ggcgcgccga gatcgagagg ctgcgggaac tcaacaacct ca 342

<210> 18461
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H6

<400> 18461

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 aaggcctcgg tggcgctgat gtccatcgcg aaaccctcgc ctggaaagaa gctctgcaag 120
 cggaccctca agctcgtgcg acgagcctcc gaggcgaagt gcctcaagcg cggagtcaaa 180
 gaggtagtca agagcattcg ccgcgggaac aaaggattgt gtgtgatcgc tggaaatatt 240
 tctcctattg atgtgattac acatgttccg atactatgtg aggaagctaa tgttccttac 300
 gtatatgttc catcaaaaga ggatcttgcg accgcaagaa ccactaag 348

<210> 18462
 <211> 343
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H7

<400> 18462

acgcccacgc gtccgcccac gcgtccgcga gaccttcctc ggacacaaca tcgtcgacaa 60
tattattctt cagcgcagcg gctactcagt ttatccttgg acagcaagtt cccttctctc 120
tgtggctttc tcttgcccct gtggtcattg gtgtttcaat ggcatccctt actgagcttt 180
cattcaactg gactggcttc atcaatgcc a tgatatcaaa catctcattc acttacagga 240
gcatttattc caagaaagct atgactgaca tggatagcac caacgtgtat gcttacatct 300
caataatcgc tctaattggt tgcattccac ctgcattgat ctt 343

<210> 18463

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A1

<400> 18463

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taccgtgctc cagcgcgccga cccccggcac ggtccagtgc ttcggccgca agaagacggc 120
tgtggccgtc gcctacacca agccggggcg cgggctgata aaggtgaacg gcgtcccgat 180
tgagctcatc aggccggaga tgctccgcct caaggccttc gagcccatcc tgctggcggg 240
gcgctccagg ttcaaggaca tcgacatgag gatccgcgtc cgaagcggcg ggaagacgtc 300
gcagatctac gccatccgcc aggccg 326

<210> 18464

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A10

<400> 18464

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ttaataatca cagcagcgtg tgggggttcat ggtggaaaga tcatcaatgg ggctacaagt 120

gctgcaagca gactatcaag aatagttact gtactggctt ggctggaata gaagctgccg 180
 aggcatcagc agatctaata aaggccaata tggctctcaa ggaggctgca gaagatgagc 240
 ctgtacagca tgaagagaag cgattagcca cttggggaac cgatgtgcct caggatcctg 300
 ttcttaacga gaag 314

<210> 18465
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A11

<400> 18465

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 tggggccatc aacaaagtgg agggactagc ttgcgaggca gaaagaaggt gccagtgccg 180
 gtgcctcccc ggtgaaacga tgatgggagt gttgttgctc cctcccctgc actgcctctt 240
 ccctggctcc gatccccac cgttgcccat ccatcatctc cctctcgctc tcgtttatgc 300
 tcttgctgc attctttttc acagtaggca tgcagtacta cttttggttc tctttgcaat 360
 atatatactg caggtttgct aatcgctaag agcctaagaa tcttccgcct ggagtggact 420
 gttctt 426

<210> 18466
 <211> 337
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A12

<400> 18466

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 tgggtgatat gatgcctgca caattatggg acacaacaat ggatcctgac atgcggctgt 120
 tgaagcaact tacggttgaa gatgctgccg aggccaat tgtgttcccc tcaattatgg 180
 gcacccgggt tgatctattg cagcacctga tccacaccgc tgctatcatg atcatcatac 240
 atcatcttga catttgcatg catcacgtac tgccgtccat tctctgtacc acatacattg 300

tcagccatct gctgcatttc ttgctactcg atcacga

337

<210> 18467

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A2

<400> 18467

cacgcgtcca cccaagcgtc cgcccacgcg tccgcccacg cgcccgcca cgcgctccggg 60
ccaagatcca ggacaaggaa ggtatcccg cggaccagca gcgactaatc ttcgcgggga 120
agcagctcga agacggccgc accttggccg actacaacat ccagaaggag tccacccttc 180
accttgttct tcgccttcgc ggtggcatca ttgaaccttc cctccaggcg ctcgcccga 240
agtacaacca ggacaagatg atctgccga agtgctatgc acggctgcac cccagggctg 300
ttaactgccg caagaagaag tgtggccaca gcaaccagat ttgtatataa gcaagatggt 360
gcgagtcagc tttagctgag gg 382

<210> 18468

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A3

<400> 18468

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gatccaggac aaggaaggta tcccgccgga ccatcagtga ctaatcttcg cggggaagca 120
gctcgaagac ggccgcacct tggccgacta caacatccag aaggagtcca cccttcagct 180
tggtcttcgc cttcgcggtg gcatcattga accttcctc caggcgctcg cccgcaagta 240
caaccaggac aagatgatct gccgcacgtg ctatgcacgg ctgcaccca gggct 295

<210> 18469

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A4

<400> 18469

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agggagcgga agaagtcagt aaattctgtc gctccaatcc ggacgaggag atgccgcgga 120
tccctctgat caagttcccc aagcggaatc tgaaagcccc atccgcgcca gtgccgtcgc 180
aaccgcgaga tcagcacgcg accctcatgt cccggttggg ggctaaagca gaggcacat 240
cttctggagg gattaaaaat taccgcttta gttcagatgt gccttcccc aagtcgcata 300
ctgctgtaag aggtcaagct tcaatccttc ctaagcgtaa acctctgact g 351

<210> 18470

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A5

<400> 18470

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gcaggttcca ggggtcacca gctatcatta cataccgtgt tcccacaaag acagctcttc 120
aggaggcata ctcaactccc atcttccac tggatattct cgctgagaga cctccagaga 180
agaagtttga atgggctaag aggcttgtga tgaaatacgg gtcacttgtg tctgttgtct 240
cttttgttgg actgtttatc taccttgtcg cgagcccgtc gaagagcagc tcaaaggcaa 300
gcaagaagag acgctgatct acttataggt cgcagttgac ggtgtagctg gtgggttttgc 360
ctggaggaac t 371

<210> 18471

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A8

<400> 18471

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aagtgtgcat tcaatcacgc ttgtgccgcc gtcgtgtgtg gtgaggaggc gttggcatcc 120
cccagtaagc aataggacat ccttcggata ttttgcgctt tgtatctcca cacagcccga 180

gggcatgagg ggggccgtga gaaataagat cctcccatgg acaaggacga gtaggagact 240
 gcatgagcag caaatgcttg ggatcgttcc caaacgggtt cccttattca tcgcatacag 300
 ccgggacaat gatcagtagc aggttttcaa ggtttcctca attcgctcgc g 351

<210> 18472
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-A9

<400> 18472

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 atcacacgag cgtgtggggg tcatgggtga aagatcatca atggggctac aagtgtgtgca 120
 agcagactat caagaatagt tactgtactg gcttggctgg aatagaagct gccgagggcat 180
 cagcagatct aatgaaagcc aatatggctc gcaaggaggc tgcagaagat gagcctgtac 240
 agcatgaaga gaagcgatta gccacttggg gaaccgatgt gcctcaggat cttgttctta 300
 acgagaagaa gctccaggaa tctctaaaga aggaaactgc gaggatgaaa gatgacaaag 360
 acgaaaggaa gacgaagtat aacgtgaagt ttaacgatta gggttactgc 409

<210> 18473
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B1

<400> 18473

acgcgtcaag cagaacagggt gcaacacatg tatgcttgct ggatggagga ttcataccag 60
 ctgatgctga tgtagtggtt cactgggtgc atgcatgtat cgtgctatta taatc 115

<210> 18474
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B10

<400> 18474

acgcgtccag gtaatgatag agagtgggtca catttcggac acagttggca gatctgtggt 60
 actggttagga cgatcaaata cacatgtcgc tgcaccttcg acagtggcgg caaacaacgc 120
 ggtgcagatc cgctcgcga tgatcctgct gctgttggtg gatgaccccg atgtgctaca 180
 tcagcgaggc agtgctg 197

<210> 18475
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-B11

<400> 18475

accacacgt ccggtggacc ggcttagtgg agaaggacac cgccggccag accaacatct 60
 actccgtcga gccgatggtg tacgtggccg agagcgccat cagctccggc acggcgggta 120
 cgtcggcgga gggcgccgag aacacggccg ccatcgccgc ggggctcgtc ctcatcaccg 180
 tagccgcggc ctctccatc ctcatccagg tgaacaagag ccaggtgccg caggtgccgg 240
 aagccgccta cagcgggccc cgcctcagct actacgtcac caagttccag ccggcgggtg 300
 ctgcgccggc gcagaccctc gaggcccccg cccccaacga gacacaagac ggcgcgcgcg 360
 ccaccgtcgc ggctccggag gtaccnggca cgcagctgtc gtcgtgagct g 411

<210> 18476
 <211> 385
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B12

<400> 18476

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 tcccgttgag aacctcgccg accacctcgc tgaccctgtc aacaacaacg cctgggccta 180
 cgctaccaac ttcgtccccg gcaagtgagc gagggcatat acatacttgt atgctgtac 240
 cgtagacata cgtattcgta tatgtactgc aggagatgta ccagtatttg tgaagcaggg 300
 agcatgggct cagagattgt accagtagtg tacgtatttg catgcatgct ttggtccttg 360

tggacattat caatgaaata tgctg

385

<210> 18477
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B4

<400> 18477

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ttgataactt caatgttcta catggtcttg aggcttcttt accgtggaag cagaagactg 120
ctattgagat tgcaaataag accaaacctta gtaaggctgt agatgataaa atcgaagaaa 180
aatacaaggc cttcaaacga tttgatactg ttgatgatca tagtgatcat tattattcaa 240
agccagaatc aagaaagggt caagcggtaa aaaagccatc aaaagactgg gtcaaacgta 300
ttcagcatga gtggaaagtc ttagagaaaag atttgccaga tactatattt g 351

<210> 18478
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B5

<400> 18478

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cgcggggctgg acctgacgct ggaccgcacg tccggctccg ggttccagtc caagagcgag 120
tacctgttcg gcaagatcga catgcagatc aagctggtgc caggcaactc cgtggcacgg 180
tcaccacctt ctacctgtcg tcccagggcg acgcgcacga cgagatcgac ttcgagttcc 240
tgggcaacgt gagcgggggag ccctacacgc tgcacaccaa cgtgttcacg cgcggaacagg 300
gccagcggga gcagcagttc cgcctctggt tcgaccctac cactgccttc cacacctact 360
ccatcctgtg gaaccgcgag cacgtga 387

<210> 18479
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B6

<400> 18479

acgtttgcc aatcaacacc agcaacagca aagcgactac agagagtagg agatgcttac 60
tctccacacc attcagtcac gccctcgcg ggcgagatcc tctctgttcc ggcgtgctct 120
gctaggcagg aagagatctt tcatttctgc cagcagttct gaggatgccg aatccggcac 180
tccccgcgcg cttggtggcg acaaacacca gcaggaggtt cttgcacaga tcgccatgct 240
tcagacgcag aaggtgcgca tcacagactt cttggacgag cgctctgctt acctgaccaa 300
gttcgccaaag gacgccgact cggagttcga cctgattggg cagaacgcct ataaaga 357

<210> 18480

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B7

<400> 18480

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ttgttgacag tgttttagtt gttaggatcg gctgtgtata tggcacataa atcgacaggg 180
aaggctgctg gtttgttctg ccatgtcaaa tagtatgagg atccgtctga ttgccaact 240
ctagctgggc actgctcatg tttatgatcc ttcttcatgt agtttctcag actaacactg 300
ctctggtata tggatgattc ttatgaactt cttttatatt aaagccgagt cgaaacggct 360
cctgtccggt gtacacgtcg ctcaaactg 388

<210> 18481

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B8

<400> 18481

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tgatgattct gggagttcgg ttgtgtggac ggaggagtct tcggatgagg acttggatta 180
 ttttgcggcc ttggatgtgg ctgcccggga ggcttctccg cgtgtgatgg atgctgaagt 240
 tcttctggt ccgagtgtcg ggcgtatgcg gcgaaggag gtggcgaagc gtagagtgag 300
 tgaggtggag agtggtcac ttcgtgtgga tggggctg 338

<210> 18482
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-B9

<400> 18482

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 gcgagccgcc tcgccatgat ctgcccggga agtgggatga cgcctatgta ccagatcac 180
 caggcgggtg tgcgcgagca gccggaggac cacactgaga tgcacctcgt gtacgccaac 240
 cggacggagg acgacatcct cctccgcgac gagctcgacc ggtgggcggc cgagtaccgc 300
 gacaagctca acgtgtggta cgtcatcgac catgtaaagc tcccggatga ggggtggaac 360
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<210> 18483
 <211> 184
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C1

<400> 18483

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 actgtgcgtg ccgcttggtta tattgttgcc acgaaaagag aagcagatat atgagcaactg 180
 cctt 184

<210> 18484
 <211> 403
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-C10

<400> 18484

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caggacaaat tggatatgcc ctggttccca tgattgctag ggggtgttatg cttggtgcag 180
accagcctgt tattctgcac atgcttgaca ttccgccagc agctgaagcc cttaatgggtg 240
ttaagatgga gttgggtgat gctgcgtttc ctcttctgaa gggagttggt gctacaactg 300
atgttggtgga agcctgcact ggggtcaatg tggccgtcat gggtgggtgga ttccccagga 360
aggaggggaat gganaggaaa gatgttatgt cgaaaaatgt ttc 403
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<210> 18485
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C11

<400> 18485

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gtggtaactc aagaactggt cttatgcatg cagcagccat aagcattgct actagcgtct 180
cctgcacgtg ctgtgtcggt tccaggggtt catgcggggc gaagcagctg gtctctgccg 240
cctgaacgcc gccggaatct gcgaggcctc cccgagctgc gtgcgtcgtc ggataaggca 300
gceggcacgg caatgccggt tccgcttget ccgtaccag ctctctccggc gccattcacg 360
ccgcccgaatg gggcccagag ccagctcgtc tgcaccgggt gccggaacct cctca 415
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<210> 18486
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-029-Q1-E1-C12

<400> 18486

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ctgccatgtc gccactgaca aaggcggtcg cggcggcggc ggcgggcgag tttctcatct 120
cttcgggatt ggatacaggc cgtgccatgc ctgcgtctca gatctcacga ttggcatgcg 180
ccctgaacttc tcgctcttcg tatctcccc tccctctccc ggcccgtgct agcgtcggag 240
gaattgtatt gtcgtagatc tgttgctcca taaatgcctt ccctatctgt ggccgagcgc 300
aaccaagaaa cgaggtatgg ccggaggag aggtanggct ggtcggctgg acctggctcg 360
ctggacgttg ccggactgga cttttccctg 390

<210> 18487
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C2

<400> 18487

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catccttgac atcccgtgc tgtttgagac aaagatggat agatggacga atccaatcat 120
tggtctctgg gttgatcaa aagtcagat tgagaggctc atttcaagag atggatgctc 180
tgaaggacaa gtcagaata ggatcaatgc acagcttgca ctagactgga agaaatcaga 240
agcagacata gtgattgaca attctggttc cctggatgac accaaacagc aattccaaga 300
agtgttgatg aaagtctcgg agcccttgac atggaaggaa cgcttgaga 349

<210> 18488
<211> 158
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C3

<400> 18488

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aaggcaaagg tataaatgta cctaaatatt atgttttc

158

<210> 18489

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C4

<400> 18489

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gcctgagcct gagaacaaat aaaattgac tagcaacaga acagaaggta ttgtcgtaga 180

ttggcacctg aagatatatt ttctcagtgg atcaatgttt catggacata aaaaaatgta 240

taacacgtag agcacttata ctggcagagg ctgcaccag gctcaataca ggaccactca 300

ctaactgtta ctgcactccc gatgtcatat ttgttcgtc aggtga 346

<210> 18490

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C5

<400> 18490

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cggcggcaag aaggcgcccg cgctggggct gcagaagcag aactcgtggg cgccggacat 120

cgagcgcgac gaggcgtggg agcgccggcg caggggcatg cgccgcgggg gcacggcgct 180

gcgccgcgcc cgcagcgtca cggacgacga cctcgacgag ctccgcggct gcatcgacct 240

gggcttcggc ttcgagccgg cgcacgccgc cgcgtgcgcg tgcgcctgcg cctgcgccgg 300

gaggaaccgc ctcttgagga cgctgcccgc gctcgacctc tactacgccg tccacggcgg 360

ggccgcggag gcgccgccgt gctcgtgogg cgccgcc 397

<210> 18491

<211> 177

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C7

<400> 18491

aggttgtaaa cttttatgag gggcatgatt gtaattcctc acaggctgtg tcctgtgcct 60

ataaatagtg aacagtattc ctttactgtt catgcattcc tgtaattgca aacgcatcac 120

tcgggaatta ttttttgtca aggcaaaggt ataaatgtac ctaaataatta tgttttc 177

<210> 18492

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C8

<400> 18492

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acgtctcggg ggacgacatc ccggagagcg tcgtcggcaa ggagaaggag atcgagatgc 120

agagggagga cctgcagtcg aagcccagaga gcatcagggg gaagatcgtg gaagggcgga 180

tcggaagag gctcggcgtg atggccctcc tggagcagcc ctacatcaag gacgacagca 240

agacggtgaa ggatctcgtg aaggagacgg tcgcctcact cgggggagaac attaaggtgc 300

ggaggtttgt ccggtacacc ctgggcgaga actgatcggg g 341

<210> 18493

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-C9

<400> 18493

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gatggtacac ctgcaactga agcccagatg ggtaaggatg tcgtatcatt cttttcgtgg 120

gcagctgagc ctgagatgga agagagaaag ctgatgggag tgaaatggat ctttctacta 180

tcactagcgc ttctccaagc tgctactac cgccgcatga ggtggtcagt cctgaagtcc 240

cgaaagctgg tcctggatgt cgtcaactga ggactatcat tacccttttt ttattgaaat 300

atgttgagcc gttaaggagc attcaaaata atgagttggt ggtgtacaat ttgccactg 360

gggctaggtt ccatgcctag aaattaattt gttttcttta ctctgctgag ctgcaaaa 418

<210> 18494

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-D1

<400> 18494

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tggcgctcctt cgccgcegtg gcggtggccg cgeccctcgg ccgcggcacc ttgcgcgtgg 120

tcagggtccgc caaggtcgac cgctgccagg agcccgccac gctagcagca accgaggcca 180

ggcccgccgc cgacggacgc cgcgccgtca tgetcgggc tgctgcggcg gccgtggcag 240

ccatcggcgg cgccggcgcc gccatggcgg gcccgaagaa cgggaccccc gaggcgaaga 300

agaagtacgc ggccatctgc gtcaccatgc ccaccgcaa ggtctgcaa aactgagcac 360

gcccgcgttg catgcaactg cagggccggg 390

<210> 18495

<211> 398

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-029-Q1-E1-D10

<400> 18495

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cagggcctgc cgccctcgg ccgcgcgcc toctccttcg ccgtcgtctg ctccaagaag 180

aagatcaaga ccgacaagcc ctacgggatt ggggggtggc tgaccgtcga cgtcgacgcc 240

aacgggagaa agggcaaggg caaggcgctg taccagtctg tcgacaagta cggcggaac 300

gtcgacggat acagcccaat ctacaacgag gatgactggc ctcccaccgg cgacgtctac 360

gtcngtggaa nactgggct tctgatctgg gccgtcac 398

<210> 18496

<211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-D12

 <400> 18496

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 caccaccacg acaaccacca ccacgaccac cagcagcagc acgaccaaca ctttcacgct 180
 ctctttcgcc gccgccaaca ctcccccttc ccccccgct aaccgcaccg cgctggatgt 240
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 gattcggatc cggccgtggc cgcacccgga ccccgctcag gtgatgcggg cgcaccggat 360
 catggagcgc gtgcangagg aacagcgccg ctggt 395

<210> 18497
 <211> 203
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-D2

 <400> 18497

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 ggatcgcgaa gaggctcggc gtgatggccc tcctggagca gccctacatc aaggacgaca 120
 gcacgacggt gaacgatctc gtgaaggaca ccgcgggtca cgctgcaga ccattacggt 180
 tccgaggttt gtccggtaca ccc 203

<210> 18498
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-D4

 <400> 18498

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 ctcggagcag atagagcatc tctagctagt tagtttgtgg caagagcgtg agaaccaac 120

cgaccgagtg aacgatcatg gcggcggtctc tgctaggccc gaacaccgga ggcaacaacg 180
gcttggggcgg gaggggtccac gcccggagcg gcggccaccg cgggtcagct gcggcggtga 240
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cctcggtgag gttcgggtac gacccgcata gctactcca gaacttcgac gacggcactg 360
cttcctacga ccaccac 377

<210> 18499
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-D5

<400> 18499

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ttgcagcgta tgggctggcg agtgctgagg gtcctgtcaa caacaacata gatagcactg 180
aatctgccat gtcttcaaca aatttatctc atgggaaaga agttcacaca gactattctg 240
ttactggcat tcctgggtgat ggaagatgtc tgtttcggtc tgtggttcac ggtgcctaca 300
ttaggtcaag gaagcccgtc cctaattgggg atcatcaaag aaggctggct gatgagttga 360
gaacaaaggc cgcagatgaa tttatcaaga ggcggggcaa 399

<210> 18500
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-D6

<400> 18500

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tctagaactt aaatgcccgt tcgtttggat gttcatgtat cgttgagtcg gtgtgtcgtg 120
aggtagttta gcctgtgggt gatacgtctg tatttccgca gctctggcgt gagag 175

<210> 18501
<211> 90

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-029-Q1-E1-D8
 <400> 18501

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 agcactaaaa ttaccactc ttattttctga 90

<210> 18502
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-029-Q1-E1-D9
 <400> 18502

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 gtccatccgc ttaggtggcg cgacggcgac gcggttcgct ggactggcgg tggcctcgca 180
 gccagcggag cgtcgcgccg cggcgatggt cgcgatggcg aagagggagc acgagctgga 240
 ggagatccgg gccatgacga cggaacagat ggaagaggag gtggtagacc tcaaggggga 300
 gcttttctcg ctccgcctta agcgcctcggc gcgccaggag ttcaagaaca gcgagttcag 360
 ccgcatgcgc aagaggattg ctcgatatg 388

<210> 18503
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-029-Q1-E1-E10
 <400> 18503

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 acaatgatga agttctggca gaagcaaaaa ggaagtccat ccttggtgag gatggcgagc 180
 tagcgaaaga taaggtcatg aacatgctat atgatgaatt gagaacctgg accgcgcact 240

gctccttccg tgcggggcca attttggttg tgcacgaacc gttcacgatt gacaatggtc 300
tgatgacacc caccatgaaa ataagaaggg acaaagtgc agacaagtac ag 352

<210> 18504

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E11

<400> 18504

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taatcagata cttgtgatcg gccaggatca acggcgctctt ggtgccaaaa ttgttcccaa 120
gaatgatgaa cttctggcag aagcaaaaag gaagtcctatc cttggtgatg atggcgagct 180
agcgaaagat aaggtcatga acatgctata tgatgaattg agaacctgta ccgcgcactg 240
ctccttccgt gtcaggccaa ttttggttgt ctacaaaccg ttcacgattg acaatggctc 300
tgattgacac ccattatgaa aataagaatg gacatagtga cagacatata caggagggag 360
atctaagcct tgttcaagtc acacgcggag cgcgtgcgca cccatcaaag ttccct 416

<210> 18505

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E12

<400> 18505

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tacgttgctg aaatcaagca cggaggctca gagtggtgtc gcctcccttg catcagatag 180
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gacaactcta gttcagacat cccctaacga agccgtcaca gtagagttgc cggggaagct 300
ggaagatgct gcctctgaaa acacatccag cgggcgaatt ccccgctggc tcaggcctga 360
gtttctccga 370

<210> 18506

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E2

 <400> 18506

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 gcagtgttca atgctgcacg gctcatgtct accaagctat ttattggtgg tcttgactgg 180
 ggtgttgatg acgtgaaact aagagaagca tttagcagct ttggagaggt tactgaagcg 240
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 gacagtgatg ctgccaaagg agctatttct gcaatggatg gcaaggaaat tgatggg 357

<210> 18507
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E3

 <400> 18507

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 cttctcctgc agtggttcaat gctgcacggc tcatgtctac caagctatctt attggtggctc 180
 ttgactgggg tggtgatgac gtgaaactaa gacaagcatt taacagcttt ggagagggtta 240
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 cctaactcttt cagtgttaca gtccaggcaa caattgctct atgctgctgc tgctgctgaa 360
 tacctgaaat ttggtggtgt tcggt 385

<210> 18508
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-E4

 <400> 18508

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cttaacttcc tcgccgagcc gcgcccgcct tctccacacg agctccgctg gcctacctcg 180
tcctgcact cctgcactcg tcgtcgtctt gccgaaggag cttttgtcgc catccaccat 240
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cgggccgttc gtggagtctg agggaattgc aggagaggac cctgagcagc agcagcttgg 360
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<210> 18509
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E5

<400> 18509

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ggagaagagg aggaagaaag ttgaagagct gaagacgctc gagaactcgc actacgacta 180
ccacaagatg aagctgcgga tgcagaccga aatccagggc ttgctcgagc ggatggaagc 240
cacaaagaag atgtgggtat aggctcctgt taacaatttc atgttgctgc tgcttaatgt 300
ttcgggtata gactccagct aacaactgcc tgatgctgct gctgctgctg aatacctgag 360
atttggtgtt gttcgttagg agagtgtcca atggtggaat tttttt 406

<210> 18510
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E7

<400> 18510

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ctgccagagg gacaaagcac gtctgtagct aaatatgtga ggacaggcct gactcctcgt 180

tgggctgatac ttgatataaa tcagcatgtc aataatgtta aatacattgc gtggattctt 240
 gagagtgcac ccatctctat tcttgagaat catgagctgg cgagcattgt gctggattac 300
 aaaagggagt gtggccggga tagtgtgtg caatcacaca cctctgtgca cacggattgc 360
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<210> 18511

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E8

<400> 18511

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 cagtggtcag caggaggtcc ttcaccgtgc gtgcctctct cgcgaaggcc actgccaccg 180
 ccgccgtggc cgttgccgcc agcgtcctgc ttgccggcgg cggcgccatg gcccaggagg 240
 tgctgctggg cgcaggcgac ggcgggctcg tcttcgagcc cagccagttc accgtcaagg 300
 ccggcgacac catcaccttc aagaacaacg ccggcttccc gcacaacgtc gtgttcgacg 360
 aag 363

<210> 18512

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-E9

<400> 18512

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 ttctgatcat ggcgtcggcg tcggcgactc gtcgtcatcc acgaggacga cgacggcggt 120
 gaagacaata agaaccaacc aaaaccacta cgcgaagcat atatacagat tactgtcaac 180
 gtattgtaga accaaggatc tatgtatata tatatgtgtg cgtccatata atcatcggac 240
 cggaataaag ctagcaatct ctcttcttca cgatcgagag atagcgcgcg tgcgtgtaat 300
 taagtattat agatgcatgc atgatgcatg cgtgtgtgta tcgatataac atgtgatggg 360

ttgtatatga gctagctata gctatagcta gaatcgtgtg atagtataact acaaac 416

<210> 18513
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F1

<400> 18513

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cgtgttcaga acgtcaggaa gcaacgcccc acatgttagg tcaggatctc aactctgcag 180

cgccgtcaag gaaggaggcg aatgagtcgc tcagcaggat cgttccgaaa tactacagtt 240

ctt 243

<210> 18514
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F10

<400> 18514

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gtccgtggac cttaccaagt tcaacggcta cacggagctg gtggcggagc tggacgagat 180

gttcgacttc aacggcgagc tgaaaggctg tagcaaggag tggatggctg tgtacaccga 240

ctacgaaggc gacatgatgc tggtcgggga cgaccctgg aatgagttct gcagcatggt 300

gcacaagatc ttctgtgtaca cgagggaaga ggtccagcgc atgaaccggg gcgccttgaa 360

ctcgaggccg gaagacagcg ggctcgccaa 390

<210> 18515
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F4

<400> 18515

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gtggctgtgc ttccgtaggg gtagtagggg gcttgcgttg cgttgcagtg cagaggacac 120

tgacggacgg cgaagaatcg aagatggagg cgtacgctgc tggagccaag ttcgactgct 180

tgctgttoga catggacgac actctgtacc cgttgagcct tggcatcaac ctagcatgcc 240

gcaagaacat acaggagtac atgctgaaga agctgcggat cgaggagagc cagggtcccca 300

ggatgtgcct ggacctgtac agggagtatg ggaccacaat ggccggcctc aagggttttg 360

ggtacgattt cgactacgac gacttccacg cctgcg 396

<210> 18516

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F5

<400> 18516

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aggtggccag agctggccgc cctgcgcgcg ctggcgcgcg acgcggcggc ccgggcccgg 180

agggagacgg cgggggtggcg cgggcgggag cgagaggacc accgccacgg ccacggcaag 240

acggccaagg tgatgcacct gctgctctgg ggaccaagt gaggtgaagt gaagcgctgc 300

tgctgctgca gctgcctctg cctcgtggcc cgcgcgcg 338

<210> 18517

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-F6

<400> 18517

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taatgatatg ggatgaaacg gttgccggtt tggctgctat taaggttgtg taatctgatg 120

ggcaatttca gcatttcta ggcctaata tgaatctttg gccatttgct gtcc 174

<210> 18518
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F7

 <400> 18518

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 aacttcgcaa caatctgatg tggctgacag agaaccagc cctgctaata ctgtggccaa 120
 ttctgatctg gatgttgtat cgcagaccac agatgaagcg agggccgaaa cgccctgccac 180
 agaaaaggca ggtcagggtg agaaagtcgt ttcaggtaaa ggaaaggaaa acaggggggaa 240
 agacatcgtg agaaactcat acaaaacaga acttgcaagg caaatTTTtac tcagtttcat 300
 tgtgaagtcg gtgcacgaca gtttaggtcc ctcccgggct gaaccagaga ggaaaccaag 360
 tggatcagat gaagctagta atgaacaga 389

<210> 18519
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F8

 <400> 18519

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 ggaaaccctg ctaccaacga gtggatcccg tcagctgaca cgggtgtacc ggcgctcagac 120
 aagccaagca gaagcgacag ctgaggggact gtatatctcc agccatgaga attcagacga 180
 gtgctttcca ccattagaat aagaaaccac actgggtgtc caccatatct ttactgttct 240
 gcgtcgagat tcttgtgatt cttacgtgga acaaattaag cgtgctacga gttagacttc 300
 tgtgttctgg ctgtaaatgg caaggaatga agttctaata gtggttcagc agtc 354

<210> 18520
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F9

<400> 18520

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aagcagccgc aatggcgagc agcaccatgg cctctcctc cacggccttc gccggcaagg 120
ccgtgaacgt gccgtcgteg tccgccttcg gcgaggcccg cgtgacgatg cgcaagacgg 180
cggggaaggg caagccggcg gcggcgctcc ggagcccggt gtacggcccc gaccgcgtgc 240
tgtacctggg cccactgtcc ggcgagccgc cgagctacct gacgggcgag ttcccggggc 300
actacggctg ggacacggcg gggctgtcgg cggaccggga gacgttcgcc aagaaccggg 360
agctggaggt gatccactcc cgctggggcca tgctggggcg gct 403

<210> 18521

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G1

<400> 18521

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ggctctacgt ccggggcacc atcctcggat acaagaggtc caagtcgaac cagtacgaga 120
ccacgtcgct cgttcagatc gaggggggtga acaccaagga ggacgtcgcg tggtagctg 180
gcaagcgcac ggcgtacatc tacaaggcta agaccaagag cagcgagacc cgctacaggt 240
gcatctgggg caaggtaacc cggccgcacg gcaactcggg cgtcgtccgc gccaaattca 300
agtccaacct cccgcctgag tccatggggc gcaaggtaag agtgttcatg 350

<210> 18522

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G10

<400> 18522

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ttgttgacaa cgacgacaac tacggttctg tacggatgga gattttggtg acatagtcgc 120
ttgattcatg atgactccac tgacttatta cacagttggt atggtctacg tggttcgcac 180

cggaatcgac aggagtactt gagaaatcta gatgagaaag ttctatagct ctgagacgta 240
atccatagta tgagtaccat ctctcagct actgctggag ccgtcatgag agttgcatca 300
gattagtatc tacaagagaa gaagctgggc ctctc 335

<210> 18523

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G12

<400> 18523

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tccgaggggc cttctccgt caccgtccac gtcaccggat tcaagagggt ccatggagtc 120
gccgagaacc cgacggagag gatcgtgctc ggtctccagc cattcatgga gacgagaggg 180
ttgcccaagg gccttggtct cgggagctgc accgtccttg aggccgccgg gcagggcgcg 240
cttggcccgc tgtatgaact gctggagtcg accgtctccg gccgggaacg tcaggagcga 300
gtaattctgc tccattttgg cgccaacagt ggttcacata ggtttgctct tgagaatcaa 360
gctgttaatg aagctacttt ccgttgcccc gatg 394

<210> 18524

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G4

<400> 18524

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cagagctcaa ggatcagctg aaacttggat tgaacttaag gtcataccag aaaatatatt 180
ttcagttcag gaatgagatt ggttcttcag ttgaagctcc agcaactatt gtggcatcag 240
tattagatgg aagcagcaat cttttaccag atagattgag acaactagct aagctaata 300
gagaacctga tgcgatgaat cttggactta atcactctgt atttggtaaa gttaaggggtg 360
ttc 363

<210> 18525
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G5

<400> 18525

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gcacatctgc atttgcaccg tcggttgcaa gttgtgatag actcggcggg aagttttatg 120
taatataaaa taaagtatag gtgaagtaca tgtttttagt ataaattttt atcctgtaat 180
tttatagtta ttgaatttta tgact 205

<210> 18526
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G6

<400> 18526

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atccagacgc tgctcccat gtcgccaag ggcgagatct gcgacgtcaa cggcgtctgc 120
gtggacgcca ccgaggacga gctcttccgc ctcaccacca aggaggggaa gctcaccgtg 180
gagcgcgaga aggtgaagat cgagacgcag cccttctccc ccgtggtgca gttcgagcag 240
gaccccgctgc agatcctgga cgcgctgctc ccgctctacc tcaacagcca gatcctccgt 300
gccctgcagg agtcgctcgc cagcgagctc gccgcccga tgagcgccat gagcagcgcc 360
accgacaaag cca 373

<210> 18527
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G7

<400> 18527

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acgtgcctct gatcaattca cttgtttttt atgttggcat ccaagctgtg caacaactgc 120
aactgaacaa ggctaatecg tctgcatcag taccagatta accatatatc tccgatggac 180
atthttccaga ttggaacagc taccgatata ttcaggagtc ttataacaag tttggatata 240
gagggccgct acctttctgtt gaatgcaatc gctaaccaac tgcgctatcc aaatagccat 300
acacactact actccttcat cactctgtat ctatthttccg aggctacca agaaattacc 360
caggagcaaa tcac 374

<210> 18528
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-G9

<400> 18528

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taaatgccaa gttttcttct aaacccgcag agaaggttaa gcggacgaga aaggaagatt 120
caaaaagcgt gtcagctcat cagcccagag agcatcaggt tgctgcgaca cccgaaaccg 180
acggcgggtg tgaqccggaa gaaggcgaag gcgcggcgcc aatggattcc gacaacggcg 240
cgggtggggga tagccagaaa cggagcccgg gggagggtctc tggccctgaa agcgggcagt 300
gcgagcctga ggcggatggc gatgataacg tgaggacgga aactaccagt agggatgctc 360
gtgccggaga gatgaaatga aacagtggca tgaag 395

<210> 18529
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H1

<400> 18529

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gtctgaagaa ttatgatcca caaaaggaca agcgtttcag tggctctgtt aagttgcctc 120
acatccctcg tccaaagatg aaggtgtgca tgcttggtga tgcccagcac gttgaggagg 180
ctgagaagat gggacttgac tacatggatg ttgaggccct caagaaaatg aacaagaaca 240

agaagcttgt taagaagctt gccaagaagt accatgcttt tttggcatca gagaccatca 300
tcaagcaaat tccccgtctc cttggctcctg gtctcaacaa ggcattgcaag tttccccact 359

<210> 18530

<211> 108

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H10

<400> 18530

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ctgttaattt tttttacttt gatttggatg catcatgacc cccccctc 108

<210> 18531

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H11

<400> 18531

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agcagctgct ggtggaacag gacagttcgc agttcagctg gcgagattag caggcaacaa 120

ggttgttgcc acatgtggag gtgaaagtaa agctgaactt ctggcttcct taggagttga 180

tcgtgttata aattacagaa atgaacgagt caaagatgtt ctgaagaaag agtttccaag 240

aggtgtagat atcatatatg aatctgtatg tggggaaatg tttgacttgt gcgtgaacgc 300

acttgcagtc catgggcata tcaactgtaac tggatatgac tcccagtacc aaggagagga 360

tggctg 366

<210> 18532

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H12

<400> 18532

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gatgatcagc gccgtgcccc ggactaaggc tctcgacatg aacaccgccg acgacgatat 120
 cgtgcgcctc acgcgcgacg tcgttccccg catgatcgtc accggaatgg aggtcgccga 180
 gattgacggc gccccagga tgggcccgcac atttggcgcc atgatgatct ccggccagaa 240
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 gccgccg 307

<210> 18533
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H2

<400> 18533

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 tgagaaagtc gtggttctgt t 81

<210> 18534
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H3

<400> 18534

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 gccagcgga gcattgtgtg ccaggcggcg agcagcatct ccgccgaccg cgtecccgac 240
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 ggcattgctg tcccctacgg cgcctcttc gtcctcgcc gtcctgggaa cgcgcgggc 360
 gggacctacg cc 372

<210> 18535
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H4

<400> 18535

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tcagttaggc aggagggcac aggaggagga agatggcgtc gaagaggatc cagaaggagc 180
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tattccactg gcaggcaaca ataatgggtc catctgatag cccatattct ggtggagttt 300
tcctagttac aatccatttt cctcccgatt atcctttcaa accaccaaag gtggcattcc 360
cgcac 365

<210> 18536

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H5

<400> 18536

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cacattcaag aacaacgccg gcttcccga caacgtcgtc ttcgacgaag acgaggtgcc 300
gagcggcgtc gacgccacca agatctcgca ggaggagtac ctcaacgcgc caggcc 356

<210> 18537

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H6

<400> 18537

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ctcctccgcg tttgcgggtt catctttggg aatcgagttc agctacagta taatgacaac 120

acggagatcc cgtggtatgc agattagggc tggaaaggct gccctctgca tgaccaagag 180
 gtcaagggtct aggaagtcac ttgcccgtag acatgggtttc cgcaggcgga tgcggactac 240
 ttctggaagg aaggtactga agcgcaggcg cgccaaaggc aggaagggttc tttgcacaag 300
 gacaaactca aacagtggga agaaaagaat gttctaatta cactgcaatt tgatgtgctc 360
 gcaactgtaa gtgtaatgtc tacttgcaat 390

<210> 18538
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H7

<400> 18538

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 ccctgctcgc gcggcgctgg gcggcgggcg cggcccgtg ctgggcgggt ggaacccgat 180
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 gcatcaggat ctggcgctcg acgggctgcg gttccgccg 279

<210> 18539
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-029-Q1-E1-H8

<400> 18539

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 ggcagacggc agcaggtccg gccaccttcc gcgcctcgcc ccggccagtg gcgttcacgc 180
 cttcggcctt ccgccatgaa ggccgcgcgc gtctctcctg tcccgccgcc gtccgcctg 240
 acacttggtg cagtgggtggc gcggcgcgcg ctggtgccgg cggccctgcg cggcaacgcg 300
 cggcggtggc cggcgctggg ggcgtctgcc gcggccgat 339

<210> 18540

<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A1

<400> 18540

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gtgcaaaccg ggccatgctt gaccggattg aggttgagta ctacggaact ccagtaaact 180
tgaagagcat ttcacagata agcactccag atgcaacttc tcgtcttatt caaccatatg 240
actaagtcaa gccacaagct tattgagaat actatagttg ctgcaaactc tgggtgtgaca 300
ccaagcaatg atggacaagt aatacgagtg actgtcccat cattgacatc tgatcgcaga 360
aat 363

<210> 18541
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A10

<400> 18541

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aattaaccac gtctctctcat cgatcagaag gaagaaatcc atggatacca tcattctttc 120
gctcgttgca tctgtctgca cgtttctcat cttcatctac tggctgtcga agtaggttta 180
ccagagcaaa gatattacgt acagtgttgt aagcttggga ccacactacc agtaccggta 240
gtccggtaca gatagtcttc attggtgttt gtacaatatt attggttgat tgaatgctgt 300
tacgatta 308

<210> 18542
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A11

<400> 18542

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 atatgatgcc tcgacagaaa ggtgaaggaa gttcgggtgcc tgtatcgtgg actccaggaa 180
 tgggtaggaa tatcgaaaat tatgttttga gggatcagga aactcgggtat cgtcagagat 240
 atcttgatat aatggtaaac catgaagtga ggcatatctt caagacacga tctaaagttg 300
 tctcatttat ccggaagttt cttgatgacc gcgaattttt ggaggtggag actccgatga 360
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<210> 18543

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A12

<400> 18543

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 cctctgtcgc tggccctggt taaccccaac ttcaacgacg gcaaggctct cttcgtccccg 120
 tgggtggaga ccgacttcag gaccggcgag gaccctgggt ggaaggcatg aggatgatcc 180
 gaaaccagcg gtgctcattg ctacacatg agacctacgt atgcctccgt tccttgtgat 240
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<210> 18544

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A2

<400> 18544

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 ccgcaccggc ggcaagggca ccatgcgcag gaagaagaag gctgtacaca agacggtcac 180
 cacggacgac aagaggctgc agggcactct caagagagta ggggtcaaca ccacccctgc 240

aatcgaggag gtgaacatat tcaaggacga tctcgtcatc cagttcttga accccaaagt 300
gcaagcttcc atcgcggaac acacatgggt ggtcagtga tctccacaga cgaaaaagct 360
acaggatgtt ctccctggta tcaatttaaca gcttggccct gacaacat 408

<210> 18545
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-030-Q1-E1-A3

<400> 18545

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gagatctcca tggcaaaactc ccgccagaat atccggaagt tggttaagga tgggtttatc 180
atcaagaagc ctcataagat cactctaga tcccgtgcaa gaagggcaca tgacgccaag 240
caaaagggac gccactcagg atatggtaag cgtangggta ccagggatgc taggctaccc 300
accaaggttc tgtggatgaa gaggatgcgt gtgctgaggc gccttctccg caagtatcgt 360
gagggcaag 369

<210> 18546
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A4

<400> 18546

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agagcagcac acacgcagct agctaggagc agcagcagag cagcggcgat ggcggcctcc 120
atgatctcct cgtcagctct ggcgggtggc cctcagggcc tgccgcccct cggccgcccgc 180
gcctcctcct tcgcgctcgt ctgctccaag aagaagatca agaccgacat gccctacggg 240
attgggggtg gcctgaccgt cgacgtcgac gccaacggga gaaagggcaa gggcaagggc 300
gtgtaccagt tcgtcgacaa gtacggcgcg aacgtcgacg gatacagccc aatctacaac 360
gaggatgact ggtctcccac cggcgacgtc tacgtcgggtg gaaccactgg gcttctgac 420

tgggccgtca tctctgctgg g

441

<210> 18547

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A5

<400> 18547

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ccgcaaggcc accggcaccg ccgccgtggc aatgggtgcc agcgccctgc ttgccggcgg 180
tgccatggcc caggaggtgc tgctggggcg agggcagggc gggctcgtct tcgagcccag 240
ccagttcacc gtcaaggccg gcgacaccat cacattcaag aacaacgccg gttcccgca 300
caacgtcgtc ttcgacgaag acgaggtgcc gagcggcgtc gacgccacca agatctcgca 360
ggaggagtac ctcaacgcgc caggcgagac ctactccg 398

<210> 18548

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-A6

<400> 18548

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gaggtggccc tctgtcgggt ggactggtgg acacatccgc gcccatggcc aaccgcggtg 120
ccgcggcccg caagctcact gtcacggaga ccttctccaa cctcagggag catggcaagg 180
tgcgtcggtt tgacacctca cgtccgtgct tcgcttcgtc gttacccttg ggggccaatt 240
cacgcgagca ccacatttc tcttggtggt cctgattgag tggcatgggt ggattgctgg 300
cgccatggtg gccgataccc aatggtggtc ccggttggtt gcaggggaata ccgaattttg 360
gtcacattta gttgcaagga aatggattac gtctttggaa caatatgtgt attc 414

<210> 18549

<211> 419

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-A7

 <400> 18549

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 tgcagctgaa ggcccctctg caccgccatt ccccaggctg cgagtccgtc catggggaag 120
 gtgtgcctgc tcaccgtcga cgagagcatc ctctgtggcgt tggccctcgt cgccgtcgcc 180
 gccttgatgc tcgtcgccct cttgctgccc ccgccgcgcc gccgcggctt cttctgagag 240
 cacggccacg ggccatggcc gggcgtgccg ttggtccggt tcggagtcgt ggtgagtgat 300
 cggttcagag tcgtgtgac ccgccagtag tgccatgcct cgtcgatctg gaactgcttg 360
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<210> 18550
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-A8

 <400> 18550

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 aaggtgtgcc tgctcaccgt cgacgagagc atcctcgtgg cattggccct cgtctccgtc 180
 gccgccttga tgctcgtcgc cctcttgctg cccccgccgc gccgcgcggg cttcttctga 240
 gagcacggcc acggggccatg gccgggcgtg ccgttggtcc ggttcggagt cttggtgagt 300
 gatcggttca gactcgtgtg gacacaccac tagtgccatg cctcgtcgat ctggaactgc 360
 ctgcgtgttt ggacaccggg tagcatctgt tgct 394

<210> 18551
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-B1

 <400> 18551

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aatatgggca tataaggaat tccccttcgc caaattatta caaaaaaccc ttgttaattt 120
ggaattcaca tctgcaacac acctgcgcaa gaggcagccc caaacgacaa gaatttttca 180
agaaaaaggg gcttttccag gcgccgtaca tcgaagatcc taacacggga gtccagatgt 240
ttgaaagcgc tgaaatcata gactacctga aggcaacata tgccctgtac ccaagctcgt 300
agtgatgtat cagaatagggt cattgtaatg ttgcgtgtag attcagttct tcccggtaat 360
aaaaggaaaa gaaatagtgg gcc 383

<210> 18552

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-B10

<400> 18552

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ctatgtacga cgctccccct ccagcttcag cacggcgac ctctcatgg ccgcacctct 120
ccctgctcgg catcaacgtc gaccgtgcct tgccaacggg gctcaccat gttggccatg 180
cctcccaact ccgttcttgg atcggtgag ctcttaggca ccacctcgt gccgctctag 240
atgttgtgct tggccctccg tgatgttcac ccagttagca gcaacagctc cgcgaaactag 300
tctccacat gtcgttaggg tctgctacac ctccctgtc gccgtggaga ccgtgtctcc 360
ctgctccaca gtgcccttca ncatctgtca tcgcaacaac ag 402

<210> 18553

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B11

<400> 18553

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atctatgctt cgtgttgatg agcaaatgtt attgtgaaac agccctatct atgtactagt 120

agaacaaacc atcttgtacg aatggaatta agcaaagaaa ggaggggaaa aatgattcaa 180
 ggaaataact ttggtcagct agatgctatg agccagttag ggccggtgga tcaggccacc 240
 atctgctcca gctccggcca ctgcgcaaat atgtcgccgg cgtgaccgtc cttgacaaga 300
 gagctgaccc actagacgtc cggctcggct gagggcagtg gggatcgcg gcggaacgcg 360
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<210> 18554
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-030-Q1-E1-B12

<400> 18554

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 cataatTTTT catttgccga cctcctccca acagaatgaa gaaaatatct gcatgagtgc 180
 attggtgcag gcatgatttc tctagcagaa ggccatataa cgattttggt ttgaagatcc 240
 aagttccttt ttaaaaaagg ggctgggtctg aacattcagg cttatttctc tagcataata 300
 ctcataaaga gtctgtact tttaggtctt gttcggttat tcctataata catggattga 360
 tggaattaan anaaatttag aagaactttg acttgc 396

<210> 18555
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B2

<400> 18555

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 tgtctgattt tgatcacaaa gcattgctag aggaatggat agccactaga gctttcagag 180
 ataattgcat tcctcaggat catcggaac ttataaacia ccttaagctt attcaggact 240
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ctcaaacatt agattggctt cacagctatc ttcttcagtg catcgagcga ggtcttttgg 360
ctgcgtgttt agaaagctgc aatcaaggtc aatgacactc ttggatgtaa cctgtccaac 420
cacacctc 428

<210> 18556
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B3

<400> 18556

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gatcaacaac cgcttcaaga gggaggatgt ggtcatcaac ggctgggaga ccgatcaggt 120
ggagaaggcc tccgcgtggc tcaagaagat cgagaggaag ctggacgagc aacgcgccaa 180
ggcgtctggag aagacgcaga acgacatcgc caaggcgcgg cgcaaggcgg aggacaagcg 240
ggcgtcggcg gatgccaagc ggggcctcaa gctggccaag gtgctggagc tcgccaactt 300
catgaaggcc gtcggcaggg tgcccaccaa gcgctccttc ttctagccag ccgactaccg 360
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<210> 18557
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B4

<400> 18557

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aacaatgggc caaacccttg gaacttttcc ttctccaagc cccggcccct gcaaaacacc 120
tgctcaaga cctgtggccg gcagccggac aaagtcaaag cagcgcagga cacgctgctg 180
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gccgaggcca aggagggaat gttcgtcaag aactacagct actaattaat caccgggcca 300
tcatccggga taccgccgcc cctccgagag atacgtgtgt actgatcatg gttaagcacg 360
tactccgatc cattcccatc ccatgaagcc atgataatga tgatatg 407

<210> 18558
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B5

<400> 18558

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 gcgtctgcac gggcatcttc cgcaccgacg gcgtcgacta ggagcacgtc gtccatctgg 180
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 tcaactccaa ggagggcccg cccacgttcg agcagcccaa gataacgatc gagaagctct 360
 tggagtacgg acacatgctg gtggctgagc aggagaacct caag 404

<210> 18559
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B7

<400> 18559

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 ccaaggaggg tgctagcttc acgtcccagg tcatcatcat gaaccaccct gggcagattg 180
 gcaacggcta tgccccagtg ctggactgcc acacctcgca cattgctgtc aagtttgagg 240
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 tcaagaatgg tgatgctggt atggtgaaga tggttccac taagcccatg gtagtggaga 360
 ccttttctga atatcctcct cttggctcgt ttgctgtccg tgacat 406

<210> 18560
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B8

<400> 18560

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gctctggagg agaaggcggc caagaaggcg cagcaggcag cggccggcgg caccgggtacc 300
tccacggaca acaacaagaa caaggcaggt ggcaagaagt aggaggcagt ggcgcgccgc 360
cacctctgta cgattaatcg atgccttgag cttgtaactt gttcgcac 408

<210> 18561

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C1

<400> 18561

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gcttgatgct gagagtgaac attatgtcaa gagcgatc acaaaagtta gtcgagattc 180
aaaggctaaa agaactgtgg taatcatagc acacaggcta tctacaattc aaacagctga 240
tagaattatt gtgatggaac atggtaatat tgtggaggat ggtaaacaca ttgatcttat 300
tgagaagggt ggtctatatt caagattagc caggcgacaa aatgacgac tcaagtagcc 360
ctggatcaca gaatgtgggt tagtgcacgc cttcttttta aatggaatgg c 411

<210> 18562

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C11

<400> 18562

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tgccctaagc agtccttttt gtagcaatgc actgcagagg acagaatgcc ttgtctagtt 240
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gtatcagttg agaaaaatag atccctgcac atcccagaaa aggaaatgga cgacaaagat 360
ccagcgacac agagaagtgt acgtaagcag accgggcatg cttgtgc 407

<210> 18563

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C12

<400> 18563

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aagccctacg ggattggggg tggcctgacc gtcgacgtcg acgccaatgg gagaaatggc 240
aagggaagg gcgtgtacca tttcgtcgac aagtacgggt cgaacttcta cggatacagc 300
ccaatctaca acgaagataa ctggtctccc 330

<210> 18564

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C2

<400> 18564

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caccaatgtc atggagtacc aggccatcgc gaagcagaag cttccgaaga tggcctacga 180
ctactacgcy tccggcgccg aggacgagtg gacgctgcag gagaacaggg aggccttctc 240
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cgtgctgggg ttcaagatct ccatgcccacat catggctcgcc ccactgcta tgcagaagat 360
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 gacactgt 428

<210> 18565

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C3

<400> 18565

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 ggaggtgcgc gtggtgaggg gagtggacct cgccatccgc gacctccgat ccagcgaccc 180
 ctacgtcgtc cttcgcatcg gcaaggcgca gaaagtgaag acgcgagtgg tcaagaagag 240
 catcaatccg gaatggaacg aaaaactcac cctctctatt gaagaccctg ccgttcttat 300
 tagactggaa gtatttgaca aggacacttt cgttgatgat gcaatgggta acgcggagct 360
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<210> 18566

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C5

<400> 18566

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 ctcatcgccg gcgaagcggg tgcagctggc cgcgcccag ggcgcgcgcg ccgctctgct 180
 cggcctggcg gccgtcttcg ccgtcacggc caccaccggg tcggccaagg ccacgatctt 240
 cgatgagtac ctcgagaaga gcaaggccaa caaggagctg aacgacaaga agaggctggc 300
 caccagtggc gccaaacttg cgcgcgcta caccgtggag ttccggcagct gccagttccc 360
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<210> 18567
 <211> 261
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C6

<400> 18567

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tttttttgtt tttttttttt t 261
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<210> 18568
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C7

<400> 18568

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gggaaccgat gaggccaagg cggccaacgg ggaggcgacg gcggtggtgg agccggacga 180
gccgaggcgg gactcgtcgc cggagcgggg cgacggggat gccgcgcggc tgaagctcct 240
caacggcatt ctcatccgca cggcctccga ggagcgggag cgggtggcgg cgcttgaggc 300
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<210> 18569
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C8

<400> 18569

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 atcattaaat aaagggtaga gcaattcttt ttctagaga ttctagagaa agtgagacaa 240
 agtgaagcga aagagttttc ttgtataag aattagggtc atatcatatc taaatagaag 300
 ggaaatcaaa aagaaggga gtggggatta cattggatga atccttaagg aagacatatc 360
 ac 362

<210> 18570

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C9

<400> 18570

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 ttctaaagg agtggaggct gttgctatcc atggaggaaa agatcaagag gagagacaga 120
 acgcaattga ctctttcaag actggttaga aggatgttct agtggctact gatgttgcatt 180
 cgaaggggtc tgatttttct gacattcagc atgtcattaa ctatgacatg cccgccgaaa 240
 tagagaacta tgtccaccga atcggtcgaa ctggtcgatg tgggaagact ggcataagcaa 300
 ctaccttcat caacaagaac caaactgaga ccacgcttct cgatctcaag catctgctga 360
 aggaggcaaa gcagaggatt ccaccggtgt tggcggagct caacga 406

<210> 18571

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D1

<400> 18571

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 cacaagatgg ccatggtaga atcaattttg gggacactgg aagctcagat cagcaggaaa 120
 ccccgtaaaa catgtataaa caaatccat actacaacat aagcatcact ggtgctacgt 180

ggggagtaaa tccattcaca ccaagttcaa cgctattggt gactctggca cctctttcac 240
 agctctgtct gatccgatgt aactcacaat cactagcagc ttcaactcac aagtcacagga 300
 taagccaagc cagcttgact cttctctgcc ctttgaattt tgctactcta taagtccaaa 360
 ggcttctacc aatcctccga acataagctt cacggcggaa ggtggaagcg tgtttctgt 420
 caatgatcca at 432

<210> 18572

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-D10

<400> 18572

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 tgggtcacct caagtgcgat catggtgttt ggctcacttt tgccaatata ctcaaatgg 180
 gagcatacac tgtccctggt tttggcatgg ttgctggctt cctggaagag cagctataca 240
 gatggctacg agctgcagag ctgacttgtg acagggcagc tcttcttgtg gtgcaagatc 300
 cgaaggtagt catctctgtt ctgatgaaat tggccggagg atgcncatct cttgccgaca 360
 agctaaatgt ggatgccttc ctggagcaag ctcgttcgta cgac 404

<210> 18573

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D11

<400> 18573

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 cccgcccgtc gtcgctgcgc ttcggtaccc gcgaagcaag gccccgcctc ccgtgtaccc 120
 gccgccgaag aagggagagg agcagatgaa agcggggagg aagaacctgc gccgggcgtg 180
 cgacgagggc gccgccgtca cgctcgccga gggagagagc atcatgcagg tcctcacgct 240

gcgcggtccc aacgtcatcg aggtgatgga cggcgtgggc gtcaggtccc tggccttggt 300
 ccccgccaag ttccagaaga gcttctggat caagaacggg agtttcgtgg tcgtggatgc 360
 cagcgggagg gaccaggcgc tggaatcggg gagcaaga 398

<210> 18574

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-D12

<400> 18574

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 ggccttcttc tccccattc caattccgag aacaggggcg gcggagtcaa ccaggtagcg 120
 tgtgctcggt agcgaggctg gcgtttgtgc ttgactggc catagccgcc tcatcaatta 180
 cggttgcgga gagcagagat tttaatatct ttgctcaggg cagcttgctt gatgcaacca 240
 agggatcgtc aggtctagct gcaaccagtg gaaagttgtg tcagttatgc gagcagtact 300
 catccgaggc gtcctcttat ctacacana acgagacca gactgagatt cttagcattc 360
 tacnacatga atgtgccagc cttgnccac tcaagcagca gtgcatcac 409

<210> 18575

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D3

<400> 18575

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 accaataatg gccggcgtga actccagcgt cgtcgggctc aagcccgcgc cggcagtgcc 120
 gcaggccgcc gccgcctcat cgcggcgga gcgggtgcag ctggccgcgc ccgatggccg 180
 ccgcgccgct ctgctcggcc tggcgggcgt cttcgccgct acggccacca ccgggtcggc 240
 caaggccacg atcttcgatg agtacctcaa gtgcggctcc aacgttttct ggaagtgggtg 300
 aagcagctag cagcagcgtc tgatgggaat ggaggagatc atcacctgtc ttgtcgaccc 360
 tagatatgtc caaactgcag ggaaattaaa tcttcatgtg taattgtg 408

<210> 18576
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D4

<400> 18576

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 tgggtccacat tagcagatct aactgttgac gaagggaaac ttcttggtg ctcatataac 120
 caaaattgtg tcggtgtgtg ggttgtggat ttgatgagaa atgagcctta tgttgatagt 180
 agtgctggat cacacttaaa tggaagtata aataggccaa ttcaatcaga tgatagcatg 240
 tcatcagtgt ttgggaggct atcgatttcc agaagcccag ccaatgaaat tggatcggat 300
 actctgcttg gatgctcaat gtctggttca aaagaaagtc ctgtctcaac ttctgcatca 360
 atgaggggat tgtcaaagcc acctggaaaa ggggacctcc ggctctcaag atctatttct 420
 acacctcttc t 431

<210> 18577
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D5

<400> 18577

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 gcagggaggc aggggtgcggc gcggcgcca ccagtggctg ggccggcgcc accaccaacg 120
 gcgtcctgtc gctgctctac cgccaggga tggagatcga cgcgctggtg cggctcgaga 180
 ccgagaggat gcgtgcgggg ctgcaggagg ctcggcggag gcacgcgcgc gcggtggcgg 240
 cggccgtgca gcgcgccgcg gcggggcggc tgcggctggc ggaggccgag ctggggcgcg 300
 cccgccgccg caacgccgag ctggaggaga ggctccggca gctggccgcc gaggggcagg 360
 cgtggctggg cgtcgcccg agccaccacg ccgtcgccgc ggggctccgc g 411

<210> 18578
 <211> 435

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-D6

 <400> 18578

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 ggatcaatat ttattttcttc tgcaatagct tcataagttg gcttgtgcac agtgaactcc 120
 caaggatagt caatgttata attagcacc ttgtcttccc tttcatggcg gcatatatgt 180
 cagctttaat ctacttggct ttcagaaaag ttaatgctgc tggcatattc ccttccgtgt 240
 cagcttccac tgggactgaa gtagaagcat ggaggcaaga tggcaacatt gatgatattg 300
 gtgtacattg atatgtttga aacacagtat ataaatatac tctttcatta aaaaaatatt 360
 ttgttcatac accacacatt agggaagacg tcaaaccatt attgaaagat gtatatagtt 420
 atacatatag tttta 435

<210> 18579
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-D7

 <400> 18579

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 ggcaagggtgg ttctggaatt cgattaatgt tattaagatt ttgtccattg ggacctgaag 120
 ggctgtgctg ttgcaaatca tgatagtttt ttttgtaaaa aaataaatct gaatctctct 180
 gccgacttca ggttccattt tatcgttccg tttcagtaga aatacggtaa ataatcatat 240
 cagctatggc ctatgggcac gattttcctg atg 273

<210> 18580
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-D8

 <400> 18580

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ccccgatctc ctcccacccg catccaaggg ttctcttctc gaccgtgcgg aacgagccag 120
 agaacaggta tggcgggcgc gcggcacctc agatccggcc tccccctcct ccgcgcccac 180
 ctcgcatcct ccgaatccgc ggccgtcgct caggtttcga ggggcttcgc gtcgcaggcc 240
 gccaaagcca ccgggaagga gatcaagggt ccaaaggctc tgtttggcgg cacaggcaac 300
 tatgccagtg cactgttctc cacagcagct aaatctaata cattggacaa agttgaatct 360
 gagattaaag ctattgtaga ggcttccaag aagagcccgt tgtttt 406

<210> 18581
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E1

<400> 18581

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 ccgtaccata ctctcttcg cggcgtagaa atggcgctgc cgaatcagca gggcgtggat 120
 taccacagct tcaagctcgt catcgttggc gacgggtggaa ctggtaaaac cacatttgtg 180
 aaaaggcatc ttactggcga gtttgagaag aaatatgagc ccaccattgg tgttgaagtt 240
 caccctctgg attttagcac taactgtggc aaaattcgct ttatttgctg ggacactgct 300
 gggcaagaaa agttcggtgg ccttagggat ggctactaca ttcattgtca gtgtgccatc 360
 attatgtttg atgtcacttc taggctgaca tacaagaatg tcccgacat 409

<210> 18582
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E10

<400> 18582

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 ggaatgagga gcaagtaaag atggcttgcc ctgcgcagtc catgctctcc gccagcggct 120
 gcatcttctc gaggagcaag cctcaggcgg catcccaagt gcgagggggc atcatcggcg 180
 gtggccgcag cagcaggccg ttctgtctca cctgcaacgc ttctcttctc ccgtcccctt 240

cctcgccggc gccggcgag gaagaccccg actgcaacga ggaggagtgc gccccgggga 300
aggaggtcg 309

<210> 18583
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E11

<400> 18583

aggagatag tggatgctaa aaattacact tttttcactg gaaagtggga ggcatcacca 60
gatgatgata taagacattg gtccaagttc ccatcattta cgctcttctt gggtcagatt 120
gagacagatg gtggcaagtc tctggacttt agcaactatc cttatatatt tatgagatgg 180
aaagagcaat attttgtcaa cgttggagtc gactgtgggt taaccatcgc tggtttctac 240
tacgtctgct tttctttagt cgatggctcc attaatggat tttattatga tccaaatagc 300
agtccatttc agaagctcga gctgaagtgt accaatgaga aaaaatccgg gttcaccttt 360
tcctcctacg agctgcagtg acaggacaga tgccctcgac agacaactt 409

<210> 18584
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E12

<400> 18584

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gtggcacaag gtttactcct atgtttcaat ggctgacaa gtctgtttcg ttaggagtta 120
ctcaagcctt ggcattgaaa agatctgggt ttatggtag acccagtata caagtcagtg 180
tgtgccctac gtttggagga agtgatcctg gggtaggggc agaagttgtc cattcattga 240
aagaggaatt gaatctgatg tgtggcctct cttgctcgcg gcatccatca gcttatactg 300
ctctatctat tggacgatca aagtggaacg gtcaagtggg cagttctgga gtggtaatca 360
ccttggaac acctcttaat aacattggaa ggccgtcggt atctgttcaa ctgaatg 417

<210> 18585
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E2

<400> 18585

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aaaataagtg attcgttttt agcccttata aaaagaaaac ggattcttga acctctttca 120
cgctcatgtc acgtcgaggt actgcagaaa aaagaaccgc aaaatccgat gcaatttttc 180
gtaatcgatt agttaacatg gtgggtaacc gtattatgaa agacggaaaa aaatcattgg 240
cttatcaaat tctctatcga gccgtgaaaa agattcaaca aaagacagaa acaaattccac 300
tattggtttt acgtcaagca atacgtagag taactcccaa taaaggagta aaaacaaga 359

<210> 18586
<211> 251
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E3

<400> 18586

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catgggtgaag gcggcgttcg agaagttcgg cggcaggatg aaggacatcg aggggttcat 120
cgacgagtgc agggccaacc tggacctcaa gaaccgctgc ggccgaggga tcgtgtcgta 180
cgagctgctc aagcgcttct ccaagcccgg actcaacggg aggggcatcc tcagcagcat 240
ctcggcctgt t 251

<210> 18587
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E4

<400> 18587

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acatctgctg cgccgataaa tctgtttgct ggctttaatg aacagttacc agcttctcat 120

aatacagatg gtgtatccag tcattttgtt gttgctaaag aacctgcca taatgttggt 180
 cagaagggca taatgccatc agctgaagca ctgccacat ctcatgctgt gcaccaagat 240
 ttgttcagtc tgtcaatttt gcaggaacca gcaacacct caccctctca gccaatagat 300
 ctgtttgctg gctttgacca acatttgccg catttgctc ctgttcagaa aattccatcg 360
 gcagttccat ttctgctaa tgatggatgg gctttctttg acgtgcaaca tggattgttg 420
 acatctgttt 430

<210> 18588

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E5

<400> 18588

aagcaaccgc aatggcgagc agcaagttgg tcctctctc caccgcttc gccggcaagg 60
 ccgtgaaggt gctgtcgtcg tctgccttcg gggacgccg tttgactatg tgcaattcgg 120
 cggcgaacgc taaggcggcg gggcgctcag ggagctcgtc gtacgggacc gaacgaatga 180
 tgtagttgcg gtcattgatg ggccatctga cgtcctagct gtcgggcgac tt 232

<210> 18589

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E6

<400> 18589

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 aagaggacga cacgatgctg cgggttgctg ggagaaggct ctctcttcc ctctcctggc 120
 gccccgccgc ggcggtagcc agaggteccc tcgccggcgc tggcgtcccc gaccgggacg 180
 acgactcggc tcgcggacgg agccagccgc ggttctccat cgactcccc ttctttgtcg 240
 cttccagggg tttctcttct actgaaacag ttgtcccaag gaaccaagac gccggcctag 300
 ctgacctccc agcaactgtg gctgctgtga agaattcctaa ccctaaggctg gtttatgatg 360
 agtacaacca tgaaagatat cctcctggag attocagcaa gcgtgccttt gcatac 416

<210> 18590
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E7

<400> 18590

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 agaagttcgg cggcaggatg aaggagatcg aggggttcac cgacgagtgc aacaacaacc 120
 tggacctcaa gaaccgctgc ggccgcggga tcgtgccgta cgagctgctc aagcccttct 180
 ccaagccggg agtcaccggg aggggcatcc ccagcagcat ctccatctga tccatcctca 240
 gcatgcatta gtccaattaa ttaaactcggg ggttgacta ttattgcatg cagaggctgc 300
 ttgtcgaata aaactgacta tatgtacgat tgtattgtac atgtgtgtca atgcaacaag 360
 aggcacgttt gag 373

<210> 18591
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E8

<400> 18591

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 cgtgtgtagt gattagcact gcacactccc tgattgtacc atggtatatt gaatgtttat 120
 actgctggaa gaaaaaaaaag ggggaccttg tgatggtcag atgtttaatt t 171

<210> 18592
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-E9

<400> 18592

cccacgcgtc cgattcgctt cttgttcttt aaaagttcag agttcaagag ttcagtttag 60
 agagagagag ggggagagtg atttgccgac ttgccagttg ccgcacaaag ctctcttagc 120

acctctgtgt ggccgacttg tccccggtat caccaagtct gcaggcctcc ccagtcgtcg 180
 ccggcgaggg aacgcgccgc ccgtgacgcc gcgggttggt ggcgccggcg ttgaggccac 240
 aagcgcgcca gcatcaggac ctcacaggtg attcaatcct gaaggcatca actatgttca 300
 attttcaaga aatgtcttgc tgttttacgt gtgcgacggg catggaacga aataatgaaa 360
 acgaaggagg aagcaaggtg aggatttttt cctacagtga gatg 404

<210> 18593
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F1

<400> 18593

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 caccatctcc ctgtatttcc cagccgtgga gcccaggatg ccgaccaggg acaccagcag 240
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 agccggtctg cagctccctt ctgctcggac gccagtcgag ctctcccttg gcgcacctcg 360
 ccagcagcag agaatctcca agtgcaggcg accagcatct ttccccatgg cgcccctgct 420
 c 421

<210> 18594
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F10

<400> 18594

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 agtgcgcacc tctccctcca cccctcgtcg caaggcccag gcacccgagc taggcacgac 120
 gatgcaagtc aagccggaag ctgcggttcc ttcgccgtca ccgccatcgc cgccagctcc 180
 gtctttccat caccgaagaa ctgaggagga caacagcggc gtcgaaattc cgcggcggta 240

accggcctaa acgtatcggc gtcgcggcat acaagggcat tccaggcgag gcgaacctga 300
 gaatgccag ccgaaacgtc aacgctacgc ctacgccggg tacagtgcac ttgcacgagc 360
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<210> 18595

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F11

<400> 18595

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 aatgtcaaat tcaaggagac agggcacagc aacatgtact tccctcagtt cattccatac 180
 tcatttatag agaaggaagc tagtcatgtt gaaggggtta gcccgagct tgcattgggc 240
 accattggag gaggaaaaga actagaggaa aagcttgttg taagaccaac aagtgagacc 300
 attgtaaacc acatgttcac caaatggatt cagagctatc gtgatcttcc tctcatgata 360
 aaccagtggg ctaacgtgac aagatgggaa atgcggacta aacca 405

<210> 18596

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F12

<400> 18596

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 ccctctatgt aatgggttgtt ggcgcataac cttttgaaga tccagaagag cctaagaact 120
 tccgcaagac aattcagcgt atcttgaatg ttcagtagc aattccagac aacgtgaaca 180
 tatctccaga gtgcaggcat ctaatttcga ggatttttgt tggcgatcct gctacgcgaa 240
 taacaatccc tgaaatccgg aatcatagtt ggttcttgaa gaaccttcct gctgatctga 300
 tggatgatga tagcatgagc aaccaatatg aggagcctga ccagccaatg cagaccatgg 360
 atcagataat gcagatttta acagagggcc acataccaac t 401

<210> 18597
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F2

<400> 18597

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cacctgataa ttggggaccct tcagcggatg aatatatttg ggggtggaaaa tagagacaca 120
ctcactcaca agacaacagg gtactcagca aaacttctca agaagcctga tcaatgccga 180
gcagtttatg cgtgttcaca tcttttctgg gctgatgacc aagatgggat aatggatggg 240
gaaaggggtc tgctttgttt gaaacgtgcc ttgagaatcg caaatgctgc tcaacagatg 300
gctagtgcta caaggggaag cagtggatcc gtaactctat ttattgagat tttgaacaag 360
tacttgtact tctttgagaa aggaattccg cagatcacaa ataccgtgat tcaagatttg 420
attgaattga tt 432

<210> 18598
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F3

<400> 18598

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gcgccgtca cggccgtccg ggcccgcctc ctctcctcc cagtgcctg cacggcagcc 120
ggtaccaccg gccggccggc cctccgtcc aagagcagca ggccgcgtct actaccacca 180
ggcaccaccc ggtgccggtg ctccaggcct cccatggagg cgggtggcgcc ggtgtccgcg 240
gcggcggtgg cggcgtgct gctgctgccg gcggacgcgg cgctggcggt gggcgggcag 300
ttggggatcc tcgagggccg cagcttcgcg ctgctgcacc cgctcatcat gggcgggctc 360
ttcgcgta ca cgctctgggc ggggtacctc ggctggcagt ggcgcgggg 409

<210> 18599
<211> 184

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F4

<400> 18599

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 ttctctttcg tagttggatt cattaaccgg cctgagtatt cctgaaaaaa aatactgtaa 180
 ctcc 184

<210> 18600
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F5

<400> 18600

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 gtggtgccga tgatecgcc cttctcaacc ctccgggccc tcaacctctc cagcaacctc 180
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 agctacaaca ggatttcgcg gattgggcat ggtctgtcga actgcacggc catccgggag 360
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<210> 18601
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F6

<400> 18601

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 gaacaaggta ggatttcaca ggttgggggtg atggctatag cccaaggctg ccttgagttg 180

acatactggg caatatatgt atcggacatt acaaatgcag ctctagaagc gggttggtaca 240
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 gagttgccac tggacaatgg ggttcgtgct ttgcttagag gttgcaccaa actcaggagg 360
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<210> 18602
 <211> 200
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB84-030-Q1-E1-F7
 <400> 18602

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 aaaaaaagga gtgggtggaa tccactggtg tgtcagatgg tgattttgtt tcgtacgtaa 120
 atgaatggtg caaagatgca gcagcccccg ataagcgcan ccccatcttt gcaccacgca 180
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<210> 18603
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-F8
 <400> 18603

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 gtgcaccgca gcctcggcgt ccacgtctcc ttcgtcaggt caacaaattt ggattcatgg 180
 actccagaac agctgaaaat gatgggtctat ggaggaaaca accgtgcaca agccttcttt 240
 aagcagcatg gttggacaga tgggtggaaaa attgaagcaa agtatacttc aagagcagct 300
 gacttgtacc ggcagttgct tgctaaagag gtcgctaaaa gcgcactga agatggcaac 360
 aatagttggc catcttcacc agttgcagct tcccaagctt cggattaaac tg 412

<210> 18604
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-F9

<400> 18604

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cctgtactgg cggacaaata tcatgccatt gcttttgatt ggctcggggt tggattttct 180
gataagcctc aaccaaataa tggttttgac tatacacttg atgagtatac ttcatecttg 240
gaattttctag tcaatgctgt tgctcctgat aagctctcta ttgttggtca gggctacttt 300
gctccggttg cagtcaaata tgctagtga caccaagaca aattgaatca tcttgacta 360
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<210> 18605
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-G1

<400> 18605

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cgaagcgggc gccgccgct cacaagttcc acgagatagt tgcgcaggag gcgacgacgg 180
ccggcggcgg cggcggcggc ggcaactgctg ctgcagccga cctggaggat caggcgtgca 240
gcaccggggg ctacctggct gggaaaacca agaagtactg ggtggacgag aagaccaggt 300
gcaactgctt cgtgctgttc gctagagcgc tgtccatcac ttggggcgac gatcccagat 360
actggatctg gcatcccgtc agagaaacca agtacgtgct atctata 407

<210> 18606
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G11

<400> 18606

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aacacgaatg gcaatctgga ggtgccataa tgacgagcag cggagcagat ggatgaacac 180
aactgaactg catgagctac ctgttatctt catgcatgca acggtttgtc ggagtgtctat 240
gccctcttgt actttccagt tgtttcgttt cttggtggta taaggaaagg tccatgggca 300
gcactgtgag acatggcatg gtggatgggtg ggtgcatcgg tgcttgttcc accggccctg 360
tgatgtgagc atctcacgct ggggtgttca g 391

<210> 18607

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G12

<400> 18607

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tgggctgcca ggtcgtcctc gcgcgggagc tgcaggggat ggtcgtcgcc atccccgagc 180
ctaagccgtg ggacatccca taatggcctg ccgacgaaag gtaaggtgcg gcttttgacg 240
ctgtgagcct tccttaattc ccttggtctg gtcaagctgt gcgcctgtgc catccccctt 300
tatatgttac ggatttagtg aagaataata atttgatgag cagaacttgg cattgggttaa 360
cttttgttcc tagtatatgg atgctcta atgtggaatcct tttgcaacta ccgc 414

<210> 18608

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G2

<400> 18608

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ccgcacgatg atccaccagt gctaggctgc gtacacttga ctctagctcg cgtatatgcc 120
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 ctcaccgtca ttgggtactg ctgcgatgat gctgaacccc gtcgctcgaca actccagttc 240
 tacgtcgccg agtccatgtt tcgggtagca gaggttgacg cctttgggtca taggtggact 300
 gtccggctga gttagccgga ccgtttgtct gagcaccgga ttgtccgcac gtaagtgccg 360
 gaccatctac gatgctgggg ctaggctgat gtgttt 396

<210> 18609

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G4

<400> 18609

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 aggagcggag tacaacttca tgatgaagct agtgcccaag gcttgagtct tgaaccttat 180
 aagatctgac tagggaaaaa aagggaagg tttggccgtg taggttttgc acggatgcac 240
 gatttgctct ccattcatgt gtacagcatt tgggtgtatag tggaggctac tttgtaaatg 300
 gtatatataa cagctacgtg ttggtccata gtgagtgact gaggggtgctg gtgtttaaac 360
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<210> 18610

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G5

<400> 18610

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 gattcgggtt gcaatgggtg gctaatacag acggcattca gttatctcca gaaggccggt 180
 ggccttgaga gtgagaagga ttacccttac actgggagtg atggcaaatg caagtttgac 240

aagtccaaga ttgttgcttc agttcagaac ttcagtgttg tgtctgtgga cgagggtcaa 300
 atttctgcta acctcatcaa acatgggcca ttggcaatcg gcatcaatgc tgcctacatg 360
 cagacataca tcggaggcgt gtcatgcccc tacatctgt 399

<210> 18611

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G6

<400> 18611

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 gggccacccc ggagcaggtg gccggtaca cctcaagct cctccaccgc cggatcccc 120
 cctccgtgcc cgggatcatg ttcctctccg gcgggcagtc ggatgtggac gcgacgcaga 180
 acctcaacgc catgaaccag gggcccaacc cgtggcacgt gtccttctcc tacgcgcggg 240
 cgctgcagaa cacctgcctc aagacctggg gcggccagcc ggacaaggtc aaggcagcgc 300
 aagacgcgct gctgctgcgc gccaaaggcca actccctggc gcagctcggc aagtacacct 360
 ccgacggcga ggccgccga gccaatgagg gaatgttcgt caagaactac 410

<210> 18612

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G7

<400> 18612

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 gaccacccgt catggcaggc ttccagatct gctgccagct ctggctggcc acgtctcttc 180
 tcgccgatgg attggccgtg gcgggacagg cggtgcttgc aagcgcgttc gccagaacg 240
 acagcaagaa ggctcgtgcc gcgacatctc gtgtgttgca gctgagcatt gtcctaggca 300
 tgggtctcac cgtcgtgctg ggacttgcta tgaggttcgg ggctggcatt ttcacaagtg 360
 acgtgcccgat gatccaagtc attcacagag gcatcccc 398

<210> 18613
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G9

<400> 18613

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gaatgcaaga ccagcggatc tagtatttgc agaggggtgtg ttgtttgcat ctctagatgt 120
ttgcatgtg ggagatgtat cgacagtgtg tttgaatttg aagagacatt ttttctgggg 180
agcatttgcc gtgactgtgt caagtattca cccaccaca gaaaaataga tgtttgattc 240
tggtatccat tggatggata cagttgtaac attggatttc tgtgattgat gctcccatcc 300
atcagacatc ttgactgagt atttctaaca aggaaaataa gagagaaagg tctaccagtt 360
tgctatcggg ttaggtgcag cagctgatat attgtttttg 400

<210> 18614
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H1

<400> 18614

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ggcctccgag acgaggggag tcgcgccggt gaggtccagc gggatcgaga cgagcacggt 240
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gcccatcgtc gaggcggccg gcgacaaggt cgtcgtcctc gacatgtaca ccgaatgggtg 360
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tgtgttc 427

<210> 18615
<211> 379

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-H10
 <400> 18615

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gtgggaacta ctgcttcttt gattggcact agtgtcacga atgcagcgtc caaagcaaag  180
agggctgttg ataaggacct tgaggacgaa gtcattggaaa ttccagtcgt ctcaactagt  240
gttgccatag gtgtatacat gtccatttct agtaacctca ggtatcagct tctggctggc  300
gtgatcgagc agaggatgct ggagccgttg ctgcataacc agaagctact gctgagtgc  360
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<210> 18616
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-H11
 <400> 18616

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acctacgcgc ccctcatcct cagcgcgcgc ggcacgcgca tcaccgccga gaagatcgcc  180
accatcgatg aggcggccaa catcaaggtc gagtcctact ggccggcgct cttcgctaag  240
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gctccagttg ctgcttccgc cccagctggg ggtgctgcag ctgctgctgc ccctgctgca  360
gaggagaaga acgaagagcc caatgacgag tctgatgacg acatggg                                     407
  
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<210> 18617
 <211> 190
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-030-Q1-E1-H12
 <400> 18617

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cggattaaag aggcgcctaaa acatgggaac gatcagcgcc gtacccgaga tcagggatcg 120
ccacatcact agcgacgacg acgatatttt acgcaacaag ctcgaggttc tgcctcgcaa 180
gatcgtcagc 190

<210> 18618

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H2

<400> 18618

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agatactctt gagtgtattt ttggctatat tagcactgct ccttggtggc ttttgtgctt 180
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acatcatgtg gatgaaaaag gaaaatgaag caaaggcgga cgctgccacg ctcatatcca 300
gcataggctc ggccaatagt gatgcacaga aagctcctcc aagcaaatgg aggacgttct 360
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<210> 18619

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H3

<400> 18619

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gttatgtcat gcactatcca ggactatcgg aggaagatgt tatccgtagg atggatgtat 180
tgaatcctca gacttgcagg accctgctag aaaagctaac gctcgatggg aaccttcatg 240
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gagggcatca agatttgga tgtttaaatg ttaccgtccc cagaactggt aaggccatct 360

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gc 422

<210> 18620

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H4

<400> 18620

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caccactcag cgggagcagg aggttatcca ttcccgtctg gccatgctgg gcgcgctcgg 360
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<210> 18621

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H5

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gggcccgcgc cactgcgtcg gcaccgacca ggacgcgctc gcgctggccg tccgcgacgc 180
cccgcgctac cccgcgccc ccatcaaggt cacgttccag cggccgagcc ccgcaacact 240
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gctgggtggcg ctgtacgaga gcgggctggt gaccgactgc gggcgcggcg agaacaaggg 360
caagtcgctg ctcaacgacc acgtggtgcg ccg 393

<210> 18622
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H6

<400> 18622

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acccgaaggc gggcgagaag atcttcaaga ccaagtgcgc gcagtgccac acagtcgaga 180
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acactctgta tgactacctg cttaacccta agaagtacat tcctggaacc aagatggtct 360
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<210> 18623
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-030-Q1-E1-H7

<400> 18623

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ccaacggaaa agcgtgctgc cagcccgcca aggggcccgg gtacgccacg ccgctggagg 360
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<210> 18624
<211> 385
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-030-Q1-E1-H8

<400> 18624

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aggaggacat tctgtcttg gtggaaaaac tgaggagggt cacagatagc ttcaaatacca 180
aacgttgaâa cgctagaata gtttattttt tggaaacctt gcggtatcga aataaccata 240
tctcaccagg tgctctatag tggattgcag ggggcactca ggaaaagggt ggacaatcta 300
tttatttttag accatanata ttcaggggct tcttgctata cagctgcata acaattgctg 360
gaagccccta agctggtgga aggat 385

<210> 18625
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-H9

<400> 18625

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aaagatagct gcaggaatgt tgcactcagc ttgcattgat gaaaaaggga tttggaagac 180
cgaacgaaga attcagacca aatattgttg aagagatacc attttcagaa gaagttgctt 240
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aaagttctct atttaaactt cctgtatct 389

<210> 18626
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-A9

<400> 18626

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actcgccttt ctttgtcgac aagcccgcca cctccgcac tacttccgcc gccgggcgcct 180
cggacacaac caccaaagat attcctgtca aaaggaagat cgagaagaag agggagaagg 240
ttctttatca tgagagtgtg ctgaagcgga atccgtttgt gcagccaatc ccatcttctg 300
tgccgggcaa gaaggataag aagataaaga agaagaaatt gcaggagaca caggagaga 360
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<210> 18627

<211> 82

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B5

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taaaccattt atcgccctga ac 82

<210> 18628

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-B6

<400> 18628

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agcagcccga ccagcaccac catcatcggc gaccatgccg gcgacgacgc gctcgaccac 120

atcctgcagt acatgggcgg cggcgacacc aagccggcgc tgctgaacca ccacaaccaa 180

cacctcgtg ccgcggcaga tgctactact actacgaccg ccgcgtgtcc tgccgcgcgc 240

acaagcgccg gcctctacgg gaacaacaag ttcattgaag tcccggccct cgagcacgcc 300

ggcggcgggc tgccgcgcag cccggggcgc tgcgagtacg gcgcctcggg gatcgccgac 360

tgggacgccc tggaccggct cggcgccctac gagctcaacg gcctctccga cgcgttcaag 420

aaca 424

<210> 18629
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H5

<400> 18629

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ggtgggttct caatgggcgc tagtgggtggc aacgacaaat caaacagaag agttgtcaga 120
gttaagataa ggaaatgaaa taccaatact gttcaagttg ctctgagcat ttataatact 180
aaggcaatca gcacgtataa ctttttgttt cacatcattt gtctgcggtg gcaatgacaa 240
tgagatgcc a ttcttaaatt ggagattaca cttctggcac agtagcaaca ttggaactag 300
ccttttcgtg atactgtcgc ccatgatatt ttgtcgtacg gtttgccaca acaatg 356

<210> 18630
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-A4

<400> 18630

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agtgtgagaa acttttcagtg agcgccttct gcaggcggag acttgcaaca gttatgggtga 120
agctcaagtt tgcagagcac cttaaggagg ctgtgacgta catcgaacag gggcatgtgc 180
gtgtcgggtcc agatgcagtc acggaccag cctttcttgt gaccagaaac atggaggact 240
tcatcacctg ggtggattcc tcaaagatca agaggaaggt catggagtac aatgatgcat 300
tagagtatta tgatgccatg ttctgagaaa atcattcggc agaaatttat gtgcccgtca 360
gtagtgtaat cttaagcctg ccacaaaggg gtcgtttctg aagaaatctg tgggaattgt 420
ctt 423

<210> 18631
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D10

<400> 18631

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cccccgccac tcccgacgcg cgcacgggtc ttcttggcac cgcgtcagat cccaccctgc 120
cgctctctag tccgcagcaa gcgaccgccc cggaaggcg tccgatcacc cagctctccg 180
cagctagaga ctgccaacac cccgtcgccc ccgtcttcga ggcaggaggc cgtctcccat 240
gcacggctct gctctcgcca cggc 264

<210> 18632

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G6

<400> 18632

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aacgggtgttc ccgggcgagg cgtgcgacga cctcggcggc gagttctgcg aggcgccata 120
ccaggccggc gtctcgaggg agctggcgca cgcctgagcc tgatgcaaatt tcgcatccat 180
atctgtctag aaccgagttg gtctcggtag atcatgttag tcgggtagag atgttcacgc 240
catgtaaggt atgtgtgtag cagtctagca tatgaccaag caaggccaac ggtgtatgta 300
atgtatacag gcatgtagta gaaaccagga tgaaatggta ctggtgtgat tca 353

<210> 18633

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G9

<400> 18633

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cctcgcgcca ttcgtcaaga tcttggacga ggagttcgga attgtcaagg ggaccatgac 120
gacgacgcac tcgtacaccg gcgaccagag gctgctggac gcgtcccacc gcgacctccg 180
gcgggccccg gcggcgggcg tgaacatcgt gccgacgagc acggggcgccg ccaaggccgt 240
ggcgctggtg ctgccgcagc tgaaggggaa gctgaacggc atcgcgctgc gggtgccgac 300

cccgaacgtg tccggtggtg gacctggtga tcaacaccgt g

341

<210> 18634

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D10

<400> 18634

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ctcctaccgc agctctccct caggtttagt gttcgcaatg gcggccttca acaagcttgg 120

tggccttcta aggcacagtg ctctggtgag cggatcact ggtggctctt ctctgcagt 180

gttcáatgct gcacggctca tgtctacgaa gctagttatt ggtggctctg actggggtgt 240

tgatgacgtg aaactaacag aagcatttag caactttgga gaggttactg aagcgagggt 300

gatcacagac agggagactg ggatgtcaag acgctttggc cttgtgagac actccgatag 360

tgatgctgcg aaagaagcga tttctgcaga tggatggcca ggaaa 405

<210> 18635

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-E8

<400> 18635

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tgtttgtcac cacacatttc caaaccatac atcaacaata tttaatgggc atttctcgac 120

caataatata gcattggtac tccacttac atttacacac ataggcaagc tcctctcacg 180

caatagagtc tacaagcatg caccggatta catcgtctcg atgctacacc tatttcactc 240

tacagctgaa tatggatata agatcgacaa atctgttcat gatttgtgga cgatgtcttc 300

atgctctgta cgcatacacg atgatattac acggtgcggg gtcttgactc taacatgtca 360

gttgctgaaa ctctgctctg ttctcac 387

<210> 18636

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-E5

<400> 18636

tgagtcgtat taccctccgg ttccggttcg ggttcgtgat gttctccggg gttcggtttc 60
gtgggtgggc gga 73

<210> 18637

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-005-Q1-E1-G5

<400> 18637

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tcgttgacaa gaagactaga accgaacctg accatgtcgc tgatccgccg cagcaacgtg 120
ttcgatccct tctccctcga cctctgggac ccctttgagg gcttccccctt cggctccggc 180
agcagcagca gtctcttccc ctcggtcccg cggaccagct cggagaccgc ggccttcgct 240
ggcgcgcgga tcgactggaa ggagactcca gaggcgcacg tgttcaaggc cgacgtaccg 300
gggctgaaga aggaggaagt caaggtggat gtccaggacg gcaacgtcgt tcagatcagc 360
ggcgaacgca acaaggagca agaggagaag acggacaact ggcaccgcg 409

<210> 18638

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B10

<400> 18638

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ggtaatcaac ttcttgccca cagttgtatt cagaagaaga caacgaggat acacgagata 120
ttccgaagca tatagcttca aattagcagc tgagggaatc atgtccatata cgagacgagt 180
attcttatgc aatacatata gtttctgctg ctgtgcctta atttgataac tcgatagaca 240
tccatcttca ggtagcaggc aggggtacat gtatgtgata ccgcaatagt aatgagaata 300

aacatccact tg

312

<210> 18639

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B4

<400> 18639

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gagctgggca catgtatcat cgatcccagt atcccatgca tgcagatgca gctcgggggc 120

acatcacgag acatgggctg cctctctcgc gcgctcatga gctactaccg atgtacttgt 180

ccataagggt ggtgagcgtg gacttgggga cagcgccgat gaagctctcc ttttctcgc 240

cgcccttgaa gatgagcacg gtggggatgc cgcggatgcc gtacgtggat gccacgttgg 300

ggctgtcgtc cgtgttcacc ttgcagc 327

<210> 18640

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-C12

<400> 18640

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caccaatcat agtcggcgtg aactccagcg tcgtcgggct caagcccgcc gcggcagtgc 120

cgcatgccgc cgccgcctca tcgccggcga agcgggtgca gctggccgct cccgacggcc 180

gccgcgccgc tctgctcggc ctggcgggccg tcttctccgt cactggcacg acctgggtctg 240

ccaacggcac gatcttcga 259

<210> 18641

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-E9

<400> 18641

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ctgcctcaca cgcaacgggc cgccgcgctc ctgccgcaga ggccatcgct caggcgctt 120
ccagtcccag gaggtgcgcc gccgcccgg cgattggtag tcaggaggag atgccaggaa 180
gaggataagc agcagcaaga ggccgaggag ggaagcggcc ctgactagca ggagcaggag 240
cagcagaagc gaacgttcct gagcctgtag gaggccgggc tgggtggagat gtccggcctc 300
agcacgcacg agcgtttcct ctgccgcctc accatatcgt ctctgaacct gctgagagtg 360
atctcggggc aggagggcgt cccgataaga ggagctcaac gccggggcg 409

<210> 18642

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-D3

<400> 18642

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ggaagcagat cttcagtcta aaatcaccaa taacgtgtat tttgacataa gcattgggaa 120
ccctgtgggg aagaatgttg ggaggattgt catccgcttg tatggggatg atgttcaca 180
aacagcagag aactttcgtg ctctttgcac tggagagaaa tggtttgat acaacggatc 240
cagtttccac cgtgtcatca gcgactttat gatccagggc ggagattttg acaaaggcaa 300
tgggtaccggt gggaaaagca tatatggacg cactttcata gatgagaact tcaaattggt 360
tcacactgga cctggagtgg tcagcatggc taatgctgga ccgaaaccaa cggcagccag 420
tttttcatt 429

<210> 18643

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-G6

<400> 18643

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tcatgctgca gaagcccggc gccgccaccg ccaagctgcg cctgcgggggt gccttctaga 120

actccacttc tgcagatttg gtgactgctg ctgtaagctg cctcgactag tagtgctgta 180
 tgtctagtag atgtgggtta ataaagaggg caaacttgaa agatcccagc ttttagatgt 240
 gggatggggg aaccaagttc aggactcgat gtcattgttc accaattggt tcagacagtt 300
 ctaggaacag tcagagaagc agttaagact ttcagatatt ttatttatac gtctcta 357

<210> 18644

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-D7

<400> 18644

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 atgaaattga gaaggcacat aattctaaag aaaggcctcc ttttcgagct cctccaaagc 120
 attatgcaca tgggttaaga gagtaagcac tcattgtttc ccctgtatag tactccctcc 180
 gtttttttta tttgtcacgt tttagttaa aaataaacta tcggacgaca aatatttaag 240
 aacagaggta gtagcaaaca ctcttggtgc ttgctatgca tttcaaactt ttagcaaaca 300
 actttctgca agtaatgctc aatttaacta cttgtatttg tgaaaattaa cgtgttgat 360
 ttctccaca taccattatt gttagtatt ttcccttgg taatttc 407

<210> 18645

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-G10

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 tcaccatgcg caagaccgtg ggcaagccca aggtggcggc gtccggcagc ccctggtacg 180
 gccccgaccg cgtcaagtac ctcgccccct tctccggcga gccccgagc tacctaccg 240
 gcgagtccc cggcgactac ggctgggaca ccgcggggc gtccgcccac cccgagacct 300
 tcgccaagaa ccgcgagctg gaggtgatcc actcccgtg ggccatgctc ggcgcgctcg 360

gctgcgtctt ccccgagctg ctctcccgca ac

392

<210> 18646

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-B11

<400> 18646

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agaaaggcag agaatggtgg acccagtgcc tcagagagct cagcatcggc caggtacag 120

tgaccggacc cgctatgtga agcggaggga gaaccaatct taccacagat gaagtctccg 180

tttctggaga tggaaaatgc cagggtttcc acaggtgtgc catactggac atgcaggagg 240

agccccact acccacatgc gaatgacatc cggtcggggtt tgcttgcgcg ttcgaagcct 300

gacaagttga cattgcgtac gcctttggg 329

<210> 18647

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-B9

<400> 18647

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tttttttttt tttttgccat aacaaaaatc cttctgagtc cgagctatta gcctaaagag 120

tgctggcatc taactaacag cctaattgac atggaagatg actcacatat aaaaatagga 180

ttcatgtatt cagatagcac aaagtccatg tacacagata ctgaaccaat tgatacggcc 240

aaaggaagtt ccatagatag aagtcagcta tattacacct tcgatttctt cgtgtgggcc 300

tcaaacagtc aaaccccgga atctgcagca ctctacttt ctctactag ttgaggagcc 360

acctgatgcc tttaaccggg catgtcgccc ctctagcctt gcttgaagta attttgcctt 420

caggggtggt ctcac 436

<210> 18648

<211> 75

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E1-G9
 <400> 18648
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 tgttcagcag attcc 75

<210> 18649
 <211> 116
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E12-C7
 <400> 18649
 atagtgagtc gtattaatgc ggtgtcggac ttctctactg acggttcagtc ctctgcgtcc 60
 ccccggtgtgt cttcgcgcga tcaccgacgt gttgctcagc tgcacgtagt ggtgtc 116

<210> 18650
 <211> 219
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-012-Q1-E12-G4
 <400> 18650
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 gtcattgtact tcccaatatg ccaactggaac aaaggagaca acttccagtc gacctgcctg 120
 aaggacatct caaagctcta agcccgcaaa ccttggggtca aggggtagac atgcatctcg 180
 gcttggttat tgatagtcca gaggcgacat tagcagtca 219

<210> 18651
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB84-013-Q1-E1-B5
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tccaagacga agatatcgga agtgatgaca tctccagcta tcacactatc gtctgacaaa 120
accgtgatgg atgctgctgt tctcatgctc aagaagaaga tccacagatt accagttgta 180
aaccacgacg aagaagtaat aggtagagtt acccgcgctg atgttcttcg cgtgttgaa 240
ggcatgttga agatttacga ggcagatac ccatgctcgg aagccacagc ctctgttaca 300
tatgtagatg ttcccgggca tgggtgttct gagt 334

<210> 18652

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-C10

<400> 18652

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caagactgga atggccaaaa ttatacccca ctatggacac a 101

<210> 18653

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-D12

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caaagggatg cgatggagct gcgagaagca cagcagcgag aacaaggccg acaaggacaa 120
gatactctgc tgccagaaaa agctttgggc aggaaagcag tgacgagaga ggatcatcct 180
tcttccttcc gagtataaaa aagtaggcat ccagatcggc caacaaggca agaggcgctt 240
caatacacat ggaagatgag cgagtacttc tgatacaaag agtggttcggc agttattatc 300
aaaataaata agccgagtaa aactccatat aggatccaac agttaccatt tttcattaat 360
cacagtttaa ttctttttct gtaccgacag tttgt 395

<210> 18654

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-013-Q1-E1-F8

<400> 18654

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gcaccttgtg tcccagagcc tctactcgtc ccaccgcgcc agcccgggcg ggcctaggaa 120
tctccgttcc cagggccgac cgccggcgcg ggcgtctccc tctgcgaggc ctgggtcaag 180
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gaggataacg ggcaagagac cagatggggt ccatgacctg gcttctctat ttcatgtcat 420
aagtttgggt gatact 436

<210> 18655

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A7

<400> 18655

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gtctggccta cgaccatgat caggcgcgcc gctccgagtt cgccggttac acggggccgc 420
cgctct 426

<210> 18656

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D11

<400> 18656

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acaacccatc caataatctt tcatgagtac agtgtcggag tcatcggcca atttcctcaa 180
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tggtttcatc acgcggaatg ggagcacctt cttgacgac tcatcactga gcgaagcgat 300
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<210> 18657

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C2

<400> 18657

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aataatggcg gcgtcgacgg tggcgagcct ctctgtcccc gtgacgacga cgaccttcgc 180
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cgtgcggtcc agcggggcgg ccacgccgcc ggagatctcc gacaagggtgt cggagagcat 360
caagcaggcg gaggacacgt gcgcggacga ccagaaggg 399

<210> 18658

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-C6

<400> 18658

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actaatcaag gttacacttt ctggaaacca gcaacctatt agagttgaaa tcacagaagc 180

tgcgatggag ttgggtgctg aaaaactttc cgggttggtc aacgatgctt acaaggatgc 240
acaccaacgg agcgtccagg ccatgaaaga gacgatggct gacttggcgc agaccctggg 300
aatgcctgcg gccctcggca tggctctcaa ttgatccgca attcgggaaa gctttcaatt 360
ctcccttttc ctcaattttg tatgccagcc gtgtgaattc taagcaaaac ccctccgca 420
cctctca 427

<210> 18659
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D2

<400> 18659

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atggatcttc aacattctgt tccacgcaaa gatggcactg gtaagatggt ctgatcagta 300
tgggtccatgt tattccatga tcgctcattc ttgcagacat tgtatccatt acagagttgt 360
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<210> 18660
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F5

<400> 18660

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gggtaccctg gtggcctctg gtttgaccgc ctcggctggg gcagcggctc gccggagaag 120
atcaaggagc tgcgcaccaa ggagatcaag aacggacgcc tacgccatgc tcgccgtcat 180
gggcgcctgg ttccaggccg agtacaccgc caccggcccc atcgacaacc tcttcgcccc 240
cctcgccgac cctggccacg ccaccatctt ccaggccttc acccccaaat gaggagttga 300

acttattatt agcattttga ggagtgtctac cacacatgca tcgtcagggt gatggccgat 360
 atatatgaaa cttcacattt tttttggtgg ggaaggactg ctgagtagac tgtcaatgat 420
 ggaatgctcg tgggtgcgagt 440

<210> 18661

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-C6

<400> 18661

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 gacgccgtcg cgcgcaaggc cggcatcgac ctcaacaaga agtgagcaag aagtgaagccc 120
 atccgatgag cagccaaact agtgtggggg ggcactagct tagcattcac gttcgcaggg 180
 tcgtctcgtc tgtctgtctg cctgcctgcc tctgtctgtt ctttcgcaat caaacatat 240
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<210> 18662

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-F5

<400> 18662

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 aatcgggtgcg tatgataatc ctgcaatgtc ggcgtcgaac aaggcagctt ttgtagatta 180
 ttttttggca agtgagctat tcacctgtgt aggttcattc aagagagagt ctgtgcgctg 240
 acgtgctgtc taggctagat ccgatcagcg atgatccgaa taagcagctc gtccttgcc 300
 gtcagcccc atgcggccat gctccccgtg gtccgtggat ggagttcttg aaaggttgct 360
 gagaaaacat gcctgattcg cagagacctg gcccggcatg gcaatg 406

<210> 18663

<211> 354

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-G3

<400> 18663

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 gaactcacgg gtcaggctga acaaaaatac agtcgtagct aggaataatc gacggatgag 180
 ttcagagcga gaggccggag tcgtcgtcct cgtcgcagcgt ggaggtgtag acggtgtaga 240
 gggaccagat gaggccgaag acgcccagca ggatccaccc cagcaggttg ttgctgagcc 300
 ccaggcttag cccggtgccc tccgtcgaca tccgctcgtc caacaacgcc agcg 354

<210> 18664
 <211> 100
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-H9

<400> 18664

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 ctatccactc tccagtgtc cagctctcc aattctctct 100

<210> 18665
 <211> 181
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G8

<400> 18665

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 atcgcacgaa ttctctctt tgggggtagc cgcgtagcgc ccgctcagtc gccggcgacc 120
 acggcggaga aattgcgggg tcacctcgcc tgtgtgtcgt gattacgcga gggagcgagc 180
 g 181

<210> 18666
 <211> 343

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-017-Q1-E1-H3

 <400> 18666

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 gtggcggtcgc tcagccccgc gggcaggaag cggcgcgggcg gcgcgttcgg cgccagatg 180
 aacgccgccg ccgagatctt caggatcgcc gccaccatga acgggctcgt gctcgtcggc 240
 gtcgccgtcg ggttcgtgct gtcgggggtg gaggccgccg tcgaggagtc cgagtaaggc 300
 gcgtgggcct gccactgtcg ggtgtcgccc cgggcccag tct 343

<210> 18667
 <211> 173
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-B12

 <400> 18667

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 tgatggtcta cgcttggtga tgagttggtg ctttgcgtg gttttgtgga tgtaataatt 120
 cgatgtacaa ataaaaaag gggagacaag gtgcttggtc ccttggtttg gtg 173

<210> 18668
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-023-Q1-E1-C1

 <400> 18668

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 atttgttcag aaaaccgtcc aaagaaatga catagtaaaa tatttttaac agcacagaag 120
 ccttggtact taacctacac aggatttgct ggattaacac gacacgaatg caccgttcca 180
 accaaataaa ccttcctcac atactgacct gttattatca acattcacgc tacagaaaag 240
 ctcaaatttt ctccactgat ctgactcctt tcccctcaag cttctccatc gctgaagcca 300

aataattgtc ccaata

316

<210> 18669

<211> 366

<212> DNA

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<223> Clone ID: LIB84-023-Q1-E1-E11

<400> 18669

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cctccaccgg caacatcacg ttgagcgtca ccaagagcaa cccggagacc ggcgaggtca 120

tggcggtctt cgagagcgtg cagccgtccg acaccgacct cgggggccaag gcgcccaagg 180

atgtcaagat ccaggggggtc tggtagctc agctcgagtgt attcgagtgt ctaactgcta 240

ggtgtccgac cgccgtcatg gatcttggga aggtgtatgt ataccatgga aaactttgga 300

gagcagagga ggaatcgtgt atgtaatgta cttgttaatg caaattcggg ctgtcgcgtt 360

tttaaa 366

<210> 18670

<211> 337

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-B9

<400> 18670

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ccacgccacc atcttccagg ccttcacccc caaatgagga gttgaactta ttattagcat 120

tttgaggagt gctaccacac atgcatcgtc aggttgatgg ccgatatata tgaaacttca 180

catttttttt ggtggggaag gactgctgag tagactgtca atgatggaat gctcgtgggtg 240

cgagtgcgat gcatggtgta cttgtactat gttgtaacca gtgtaaaaag gggatactcg 300

ttagatgtta tgccatgttc tctgaaaaaa aggagac 337

<210> 18671

<211> 176

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H4

<400> 18671

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ccatgcatca accagcatgg actgtggatc caggggtgct gttaccaccg tcaggcttta 120
ttctaagtta aatcccaatg aaaaaaattg tgcttcttgg tgctgcaaat caaaac 176

<210> 18672

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-H6

<400> 18672

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gagccttgca ttgcttgtaa actaggcgaa gctatatgcc cacgctcaag cacatacaat 120
tgaagctgaa gaacgtgaat acagcagtcg ccgaaccaca atgtatgata ttgacatgac 180
caaatgcatt tactgtgggt tctgccaaga ggcttgccca gtcgatgcta ttgttgaggg 240
gcctaacttt gagtttgcta ctgagacaca cgaggaacta ctgtacgaca agggaaaatt 300
gctcgagaat ggtgaccgct tggaaaactg 329

<210> 18673

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-B10

<400> 18673

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aacactgtgt atctctactt gccgagctcg acacattcag caaccaacaa gtccagtcac 120
cttcaccatc aaatatgaaa gagcttgcca agaggacact gaaagcatac cttaatgtcc 180
ggcgaggcgt cgagcagctg atgagcaagt aactgtgaa agcatgtggg tactgctctg 240
aggtccatgt tgggtccgtgg ggccacaatg tgaagctctg tggggctttc aagcaccagt 300
ggcgggatgg caagcatgga tggcaggacg cgggtggttg tgaggtcac cgcaccaact 360

acgtgtggca tgtccctgaa ccagtggt ctcctctcag atcctctct

409

<210> 18674

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B10

<400> 18674

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cagttcggtta catcggaagc agcatccgac ttcgatcatt cgaaagaatt ataccctcac 120

tgcatacat gataatactt cgccacctta cattcttgaa ttgacggaac ccagtcacac 180

acacacacac caatcagagg tctcaggagg ctggccagggt cttcaggcac agcccgcttg 240

agaaaaatga agaatacgct acgttctata gtctgtgtca atcagatttt tgtgcagagg 300

tgttcgtttt cgagtcagtt tggtagtaca 330

<210> 18675

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-D2

<400> 18675

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tgtttgcgtg cagactgcat acggagtaga agttgagggt gaaaataacc catatgatcc 120

tagcttaatg gttttcatgg actacagaga ttgtttcaaa gaggaattct cacacattga 180

acaagaaaat ccactttcc tgtatgctat gccatgtca tccacacgag ttttctttga 240

ggaaacatgc ttagcttcta aagatgctat gtcttttgat ctacttaaga agaggctgat 300

gtatcggttg aacgcgatgg gaattcgtat cctgaaagtt tatgaggagg aatggctcta 360

cattcctgtt ggagggtcct taccacacac agatcagaaa aa 402

<210> 18676

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-H3

<400> 18676

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cggtgcttaa aacctgtgct cgacctactg gcgtatccag gaagatagta cagcctgccg 120
ctgccaaagta cagttatgca ttccaagtcc ccagagaagc aatcacttct gggatcgagg 180
agaaacccag caaataatgg gagtacggag gatgaaaagg gagacggcgg gatcccatgg 240
ctgacatttc tgggggttcgt gttcctgatc ttcaactcgg gcatggcgat ctaccgctcg 300
gagcgcgacc ccgggtcaat aacgttcgtg tggggcgctg acgtcgacct gctgctgctc 360
ttcctctgcc ttcgccggtt cgagcggacg ccgcttgact cgccgcgccg gggggtggat 420
taaggg 426

<210> 18677

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-B8

<400> 18677

gcgtggtgat gtaggtatta gtattacgaa gaagttttat tcaggtcacg agcttattgt 60
cgtaattcgt acaggagctg agtgcgtagc cgtacgtacg ctagccaagt acgatgacct 120
tgcacaatca cagacataca taaggcacgc aggcaggcac gaacgggctg ggatgccggc 180
cgcccgggct gctcagttag ccctggcgag gaagctctcc ctgcgctcgt ggacctcgcc 240
ggtgcaggtg ttgatgtcct cctcgaccct ggtctcgcgc accac 285

<210> 18678

<211> 522

<212> DNA

<213> Zea mays

<223> Clone ID: 03-LIB84-007-Q1-E1-A3

<400> 18678

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cgccatgaac atgggtgggg tgtccccgtc gacagtcggg tgcaagcact gcagcacgca 120

gctcaccgtg tgccccggcg agcgcgccat ccagtgcacg caatgctgcg gcgtgacgcg 180
tataccggcgg cggcgggtcc agcggccggc ggcggcgccg cccaccacgg gcttcccgcg 240
cgcccgcggc aagaagcggg ccctcctgat cggcatcacg tacgccggca cgcgccgggg 300
ctgcgggccag ctgagggggg ccctcaacga cgtcaagtgc atgaggcaac tcctctggca 360
acgcttcgcc ttcccagcgc actgcatcat catgctcact gatggacaga agggaccgtt 420
caggctgccc accatggaca acatccggtt ggggatgcac ttggcgggtg gaggggaagc 480
agcgaggggg aatccctcgg gttccagttc tccggcctgg gc 522

<210> 18679

<211> 647

<212> DNA

<213> Zea mays

<223> Clone ID: 06-LIB84-007-Q1-E1-B5

<400> 18679

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tcgcggtctg ggctgcggct gcgcggccgt cggcgacgga ggcagggcac cgcgggcagg 120
tgcagcaagc tcggggcatc gtggtgcagg tgagggacgg gaatctggag cgggcgctgt 180
cgatcatgga gcgcaggatg cgggccagcg gcatggagcg cctcatccgg gcgcgcaccc 240
attaccacgt caaggactcg gagaagcgcg tgctcgcgcg taaggggctt atgcaacgcg 300
tccgttccca ggagctcggc aagaagctcc gcgagattct catcaagaag atcagggggc 360
agtgagggca tcaacgcatt ggccgtttac cggtagcatt tgtgtgtggg tgcttcgttt 420
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aaactattgt ttttttattg gtcaacttag tatatatatg gatttaatta ctgtttgtgc 600
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<210> 18680

<211> 575

<212> DNA

<213> Zea mays

<223> Clone ID: 07-LIB84-007-Q1-E1-B3

<400> 18680

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gccaggcgag acctactcgc tcaccctcac cggtgccggg cacctacggg ttctactgcg 480
agccgcacca atgagcagga atggtcggca agattagagt caactaaagc tagctatcca 540
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<210> 18681

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: 10-LIB84-007-Q1-E1-C5

<400> 18681

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cccgttatcg ccaggccgtc gctgcccaag aagccctcgc cgtcgtgccg cctccggaac 180
ggcagcctca acgttctgcg cctgctccgc gtgttcgagc tctgcgaccg ccatggggat 240
ggcgagatca ccctcgacgg agatggccgc ggcgctcgac gcgctcggcc tcggcgccga 300
ccgccccggc ctgcaggccg ctgtgggcga gtacatcccg ggc 343

<210> 18682

<211> 524

<212> DNA

<213> Zea mays

<223> Clone ID: 11-LIB84-007-Q1-E1-C3

<400> 18682

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ctcttcgtct cgctgcctc agcttgettg cctccctgcc tccacaagca gaaggcgctt 120
caaggtcacg gccatggcgc caaaaaagaa ggtgaaccgc tacgacgaga gctggtcgaa 180
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<210> 18683
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: 12-LIB84-007-Q1-E1-C7

<400> 18683

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ggaaattgtt tgtattgg 78

<210> 18684
<211> 542
<212> DNA
<213> Zea mays

<223> Clone ID: 13-LIB84-007-Q1-E1-D1

<400> 18684

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<210> 18685

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: 15-LIB84-007-Q1-E1-D3

<400> 18685

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 tgcaccagat attagattac ctggcatcag tttgttgect gtatttggtg tatgctactg 240
 tattgtttgt gccaacataa actaaatact gtttgagaat cagatgtgta tatatataga 300
 tagaaacttt ggaacgtcgt ttggattcta ttctgcagaa atcaattgaa ctttagcatc 360
 atatttaaaa aaagaaaaaa aaggagaaaa a 391

<210> 18686

<211> 564

<212> DNA

<213> Zea mays

<223> Clone ID: 16-LIB84-007-Q1-E1-D7

<400> 18686

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 caaacagct gttacaactg aggaaaagaa gttggattca atgaacagaa atgagaggca 180
 gaaattgctc cttgaaaaga agaagttgaa cctagagaaa ttaaggctcg aaaggcagaa 240
 actaaaggag gacaaggaag aggagataat gatcttaagc atggatttga gcaaagttaa 300
 ccctctactc cgccagtact atgaagccaa gcaacaagag atactggcaa gggttactgg 360

gtctacttca tctggccagt gaaggttcct tatttaatat gtttgtttgt catttatgaa 420
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 accaaaattt ttaggtcgtc tttgaactat ttgtttttta gttaatgttt tgaaccattt 540
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<210> 18687

<211> 486

<212> DNA

<213> Zea mays

<223> Clone ID: 17-LIB84-007-Q1-E1-E1

<400> 18687

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 agctttggaa aatattgact tgtcaatgac aaagatggga gccaaagtga aggttctact 180
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 cttatgttga agttgtggaa caaggaccgt atagataagg cctcggatgt gctccagtca 360
 gtatctacac aagtaaatga agctttggaa aatcgaccta attccataca gcttaggggg 420
 tcgacatgca ctaaattggt tccagctaaa gctcgggtgg aatatgttcc aatgctggaa 480
 gttggt 486

<210> 18688

<211> 544

<212> DNA

<213> Zea mays

<223> Clone ID: 18-LIB84-007-Q1-E1-E5

<400> 18688

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 cacatcattt atgaccgta ttctcaaggt tgtccggcga agttctcatg aaacagctca 180
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ataccaaga gctgttatcc ctggtggttc ctttacaggg cgtgctccga tgaaagctgg 300
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 aactgacatg agtgtggcat tttcctctga acaggtgctt ccacgtgcaa cataggggag 420
 tatgttaccg ctgagctgat ataatgagaa ccaagtggta tcccactcgt cgctcctggc 480
 cctaattggct gaatatggac agcaagctga gaagattggt ccttccggct gcactgttaa 540
 gaaa 544

<210> 18689

<211> 645

<212> DNA

<213> Zea mays

<223> Clone ID: 19-LIB84-007-Q1-E1-E3

<400> 18689

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 caagcgagac aattctgagt acaagtatac gattgcgatg atgggatatg gtccagaaga 120
 caaaaatgct gtattggagt tgacctacaa ctatgggggtg aaggaatatg ataagggaaa 180
 tgcttatgca cagattgcta ttagtactga tgatgtctac aaaactgcgg aagcaattag 240
 agtaaatggt ggacaaatta ctctgaacc tggccatta cctggcatca ccaccaagat 300
 aactgcatgc acagatccag atggctggaa aacagtgttt gtcgataaca tagattttct 360
 gaaggagttg gaagaatgag ctttgctaga gatctcaact tggtagatca agctccatac 420
 ggttgcaccc cgtgagttcc atgcatgacc tgcaaaatct ttgttaagcc aaagcctcaa 480
 actgaggatt gtagataggt cgtccaatct acggcatcat cgcaattgat agttgataga 540
 gcattagatt ttccttgagc attcatatag atgcgcaacc gtttttgtat tatgcatttt 600
 atggcataag ttcaatggaa atgattcatg ggtaagaaaa tcgtc 645

<210> 18690

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: 20-LIB84-007-Q1-E1-E7

<400> 18690

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 tcctcctcct agcacagcta gcgcctgctc cccttcgtct gtgatcatgt cttgcagcag 120
 cggcaagtgc aactgcgggt ccagctgctc ctgcggcagc tcatgcaact gcatgtcccc 180
 tgacgtggag accgccgccc ccagcagcat caagaccatg gtcctcgctg cgccgaccac 240
 caaggccagc gccggcgggc tgcaggcggc caccgagggc ggcggctgcg actgcaacac 300
 ctgcáactgc ggcaccagct gccgctgctc ctgctgcagc tgcaactgag ccggggcccc 360
 cgggcccggc 369

<210> 18691

<211> 626

<212> DNA

<213> Zea mays

<223> Clone ID: 22-LIB84-007-Q1-E1-F5

<400> 18691

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 ccgcgcgggg gcgggagcag aaccgcggcg tgacgtacat gtggtgccgg tccatggacc 120
 ccgtgccgc ggtggtgcac ccgtaccgc acagccacgg ccacggccgc cggcgcgcg 180
 cgtcgaggtc gaggtcgagg tgcaggctcg cgccccgctc gtccctgtcg tgccggtcct 240
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 gctgcaagag cagccgatg cacacacgcc ggcgccgct gcgcctgcat cagggccgcg 360
 gccacccgctc ggagccggag ccggagcggc acgtctcggg cgcggcggtg acgatgctgt 420
 tcgcgtcaa ggacgacgtc caggtccagg aggcggcgga cggcgatctg gggctgggcc 480
 ttggcctgga cccccggcg ccgcctcaag tgcggatcac gggctcgccc ttcctggcga 540
 aggaagagga caataaccag gaattgagga gcgcggtggg agagggggcg ccgcgagttc 600
 aacaagtggc tccacgagca gctgcg 626

<210> 18692

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: 23-LIB84-007-Q1-E1-F3

<400> 18692

cacgccgtca catcgcaaaa cccagcgccc caaagcgacc ccaccgaagc gtcccagccc 60
gaccggaatg gcgatgggac cgtgcgcacc cgcctccgtc tcctccttcc ccgcccgtcc 120
agtgcggacc ccttccgctg tccggcccgcg cggcgcccgcg atccgcgcgc ctgcggcggc 180
ggtggagggt ggaggtggt gggcgccact actgggggtgg tccgggaagg ccgactacct 240
tgaggccccg gccccggccc cggcggtgcc gcaggacgac gac 283

<210> 18693

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: 24-LIB84-007-Q1-E1-F7

<400> 18693

ctcgcgggtc caccgaagcc tctacagtca ctctgtctaa cgcgtgggcg aacgctgacg 60
tggaggtcct acaggccgag atggagctgg tccgtgccat ggagaggaac agtgtcaaca 120
acgacggcac tgcggacgtg gaggtgagg acaaggcgct gctgcggact gcggaggccg 180
atctggatgc cgccaagaag gagctggata gcatcaaggc cgggagcttc cagttcatga 240
cgtccatgga cagcgcgcgc accgagatca tgcgggtctc cgaggaagtg aaccggctca 300
aggcgcatga taagaatgcg gactcgcagg ttcagcagct gaacgccaag ttgctgaacg 360
cgagggccccg gctggaggcc ctca 384

<210> 18694

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: 25-LIB84-007-Q1-E1-G1

<400> 18694

cgcgcgatgcg tccgcatacg cgtcagctca agccccgacc ccgtcgcgga tcgtcacggg 60
tgccggcctc ggcttccccg tcggttcctt gccactcgtc tggctctcct cactgcctca 120
ccctctgcaa catcttctt 139

<210> 18695
<211> 593
<212> DNA
<213> Zea mays

<223> Clone ID: 26-LIB84-007-Q1-E1-G5

<400> 18695

ccgacatcgg cctcagcggc agcgagtacc cggcgcccta cgccatcgtg taccggaaca 60
tggccatcct cggcgtggac ggcttctcgt cgctcccaaa gaactgcctc accctctgct 120
acatcttctt cgcggcggcc atcgtcgtca acctggtcag ggacctgggtg ccgaagaagg 180
tcgccagggtt catcccgctc ccgatggcca tggcgatccc gttctacctc gggtccttct 240
tcgccatcga catgttcacg ggcaccgtga tcctcttcgc gtgggagacg atcaacaagg 300
ccaaagccaa cgccttcgcg ccagcgggtg cgtcggggct gatctgcggc gacggcatct 360
ggacctgcc gcagtcatt cttgcgcttg ccaagggtgaa gccgccatc tgcataagt 420
tcttgtccaa gtcggtgaat gcccagggtg acggcttctt cggaagttga actgttga 480
tcgttacgtg catgtatatt gtgttgatgc accacgcgtg ctgtaaaacg taccgggtaa 540
tgttgtgtcc acacgttctg gttttgatgt taaaaaaaa aaaaaaggcg cg 593

<210> 18696
<211> 494
<212> DNA
<213> Zea mays

<223> Clone ID: 27-LIB84-007-Q1-E1-G3

<400> 18696

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agttctgctc tgctctgctt ctagccatgg tggcctcgcg gatcttgctc ccgctgctgc 120
tctccctctt cctatgctcg cattgctgta ccggagcggc ggcggcgaag cggcagctgc 180
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gcgtcacctc ccgcgacgtg accatcgacg cttcgacagg cgctgcgcgc cggctctacc 360
tcccagactt ccgcgccagc gcccggtgct ccgtgctcgt ctacttcac ggccggcacgt 420
tcgtggtgga gtcggcgctc acgccatct accacgccta cctcaacact ctggccgcca 480

aggctggcgt ggtg

494

<210> 18697

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: 28-LIB84-007-Q1-E1-G7

<400> 18697

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atctttcaat agtgc 75

<210> 18698

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: 30-LIB84-007-Q1-E1-H5

<400> 18698

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ctcccgtctc cgctcgtctc tctctgtctc tcacctcgcc gccagccatg ggcaagatca 120

agatcggaat caacggtttc ggaaggatcg gcaggctcgt ggccagggtc gccctgcaga 180

gcgaggatgt ctagctcgtc gccgtcaacg accccttcat caccacggat tacatgacct 240

acatgttcaa gtacgacacc gtgcacggcc aatggaagca cagcgacatc accctcaagg 300

actccaagac gcttctcttc ggcgagaagc cggtcaccgt ctttggcatc aggaaacccg 360

atgagattcc gtggggtgag gctggtgctg agtatgtcgt ggagtccacc ggtgtcgtca 420

ctgacaagga caaggctgct gcacatctga aggggtggggc caagaagggt gtta 474

<210> 18699

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: 31-LIB84-007-Q1-E1-H3

<400> 18699

cccacgcgtc cgcggacgcg tgggtccca ataagctccc cagctccacg ccggacgcag 60

cagcagcagc agtagagatg gccgccctcg ccgcctcctc cacggccgcc ttcgccgcca 120
agccgcgcct cccacgcgcg cgcctcaccg tggcctgctc cgccaccggc ggcgacggca 180
acggcagcag cagcagcagc gtgtcgctcg catcctccgt gaagacgttc tcggccgcgc 240
tggctctgtc gtcggtgctt ctctcctcgg ccgccacctc cctccccccc 290

<210> 18700

<211> 550

<212> DNA

<213> Zea mays

<223> Clone ID: 34-LIB84-007-Q1-E1-A6

<400> 18700

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aaggtcgaca gggagatgga gattctgctg aacgagatcc cctcctcca ccacgtcggc 120
ctcctcggcg gcagcgaggc cggcgcgga cgcgacgccg acctctcctt cctcatccac 180
gagctcgccg cgatgggcct cgtcgacggc gacgacgagc tgccggcgcc gggcgctgcc 240
accgggtacg gcttccccac gaaaggcgag aaccttgctg ccatgcactc gttctccatg 300
gccagccact acgcgcacat gcgctctctg tttgttcccg tcaccttcga cgacgccgcc 360
gctgccgacg gctgggacat ccggtgctcc ccgccgcctt atgtgcctcc gccttctccc 420
gccacgccta gggcccggcg caagagcgtg aggaggaaga acgggtcggg tgatgacgac 480
gagccccaag aagtgcggag ccgccccggc ggccaagttg gcacggcgaa gaccctggcc 540
cggcctgcgc 550

<210> 18701

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: 35-LIB84-007-Q1-E1-A4

<400> 18701

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gggatctctt cgtcttcttg gtgcccgtaa ggatagctca caatttggcg aactgtgtac 120
agttttgtca ttttgtgggc acagatgatg ctcccagtaa tgtgcacaat aaagaaaaaa 180

aaaatcaact cgataaaaaa aaggaaaatt gtgaacaatg gaaaaatgaa aaatacaaaa 240
aaagaataa 249

<210> 18702

<211> 553

<212> DNA

<213> Zea mays

<223> Clone ID: 36-LIB84-007-Q1-E1-A8

<400> 18702

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tggggaggag acgcccgcgc cgccggccgc tcccaagaag atcctcaaga agaagcccg 180
ctactcgatg aagaaagggc agattgtgcg cgtggacaag gagaagtacc tgaacagcat 240
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gctccactta cagaggatat gattgccggt cggccgggcg gccgggggccc ttgcagggca 480
ccgttacgcc gcccctgag tcatgcgtca ttccgcatca ggagtcggcc aattcaggat 540
gcaccttggt gtt 553

<210> 18703

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: 37-LIB84-007-Q1-E1-B2

<400> 18703

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tcacggctca tgcgacgtca tcgtgggccc gacgcgccga tgcgctgggt cggtcggcg 120
cgggtgaaggc cgtgcggccg agggacgcag cagacgcgct gggcggctag gggttccacc 180
tgctggacat ccggccggac tgggagcgca cccgcgccag cgtgcagggc tccgtgcacg 240
tgccgctgtt cgtgggggac tacgacatgg gcccctgac actgctgaat aagtgggtcc 300

acttgggcta catcgggctc tggaccggcc aggccttcac caagatgaac tagcgcttcg 360
tcgacaacgt ctccgccacc gtctacggga tcaaggacgc caagcttcg 409

<210> 18704

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: 38-LIB84-007-Q1-E1-B6

<400> 18704

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actacgacag gcaagaggac ctggaggcgt ctgcgaggga ggagctgctg cgggaggagc 120
tgctcgagga gattgagcag agggttgggg gcctcacgga gctggtggaa gcgagcaagg 180
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caaaacccaa aactattgat caactgcgct actgcactgc aatatcagga tacgtatagt 360
tttcttttca agggaaacag gaaggagtg cagtgcaccc ccgcccatac tgcatgttat 420
taatacgaga aagttattta cagagaaagg aggagaa 457

<210> 18705

<211> 622

<212> DNA

<213> Zea mays

<223> Clone ID: 39-LIB84-007-Q1-E1-B4

<400> 18705

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acgaatgcag cgctcaaagc aaagagggtt gttgataagg accttgagga cgaagtcagt 120
gaaattccag tcgtctcaac tagtggtgcc tatggtgtat acatgtccat ttctagtaac 180
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gcctaaagtt ctaacagctt gcctgcatgt tccgctgtca ctgcctcact aggcacgttc 420

acaatacaat cgattgcttg cctgcctcta tagaatgctg atctactctt cactggaggc 480
ccccttatat ataggacaaa atcccaattt tgtttgggaa aacacaagta gggatataac 540
tgtcaaattc tcgtaagcaa cggcaactgc gttctacccc tcaacttttt ttttttcctt 600
tttctacctt tcaacatgca ac 622

<210> 18706
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: 40-LIB84-007-Q1-E1-B8

<400> 18706

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tcctgttatt gatgatgact ggaatttggg tggcgttggt tcagactatg atttattggc 180
actggataca atatcaggag ctggaccggc tgaagcagac atatttcctg acgtggatat 240
cacttggaag acatttcatg agataccgaa gcttttgagc aaaaccaacg ggaagggttat 300
tgctgatgtt atgaccccag cgcctctcgt ggtgcgtgaa acaactaacc ttgaagatgc 360
tgcaaggtta cgccttgtga ctaagtaacg caggcttcca atgggtcgat aactcaagca 420
aactggttgg gatcatttca gaaggaactt tgttcaaacc ggccctcta 469

<210> 18707
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: 41-LIB84-007-Q1-E1-C2

<400> 18707

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atggaagatg ttgcttccat attccgagta gcagacaagg ataactctgg cactttaacc 120
gtgaagaaaa taaaatatgt ccttggggac atatatgaga gatacccaca agtgggaattg 180
tatcttaaatt ccaaccaaatt gaagagcttc cactagctac ttaaagactc agatggtaac 240
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accgactgct tcaacagaat gaatacctgt gaacaatatc ctgaggggtcc tataaggatc 420
aaaggtgcaa ggcgccatcg gttcaaacct ttcaggtaca ggcattctcg 469

<210> 18708

<211> 500

<212> DNA

<213> Zea mays

<223> Clone ID: 42-LIB84-007-Q1-E1-C6

<400> 18708

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aaaacatgtt ttcagagccg aggtctgaca ttgatcttca ggcgttcaag aagaaagtat 480
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<210> 18709

<211> 542

<212> DNA

<213> Zea mays

<223> Clone ID: 43-LIB84-007-Q1-E1-C4

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aa 542

<210> 18710

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: 44-LIB84-007-Q1-E1-C8

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gacttctctg ccaatttggg tgccttggtg tgtcagaggt ttggatcatgt ctatcacaac 300
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acacaacatt atggtgctgt ccaaggggat atctgcactg gggcccaacg cgattagact 420
ccttcttttg cccaaacttg tgacatatat gcaacttctg gagccgggaa tgcagc 476

<210> 18711

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: 45-LIB84-007-Q1-E1-D2

<400> 18711

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cgactgccac gtccttcgcc actctcgccg tcgcgcgctc ggcggggcag cggtcctctc 120
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ccacatcagc tagcggcgag cccaaggaag cagaccttca gtcgaaaatc acaaacaagg 300
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<210> 18712

<211> 123

<212> DNA

<213> Zea mays

<223> Clone ID: 46-LIB84-007-Q1-E1-D6

<400> 18712

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 gcaacaatgg atacatcaca tccagcagag aactgctgga aagcaaagga accatggccg 120
 ggg 123

<210> 18713

<211> 587

<212> DNA

<213> Zea mays

<223> Clone ID: 47-LIB84-007-Q1-E1-D4

<400> 18713

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 cccgtcgcta catgacggac atgatcacct acgccgacac cgacgtcgtc atcgtgggcg 360
 ccggctccgc ggggctgtcc tgcgcgtacg agctctccaa ggaccccgcc gtgagcatcg 420
 ccatcgtgga gcagtccgtg tcgccgggcy gcagcacgtg gctgggcggg cagcggttct 480
 cggccatggt ggtgcgcâaa ccgggggcacc tgttcctgga cgaactgggc ttggcttacc 540
 acgaggccga ggactacgtg ggcatcaacc aggccgggct cttcacg 587

<210> 18714
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: 48-LIB84-007-Q1-E1-D8

<400> 18714

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caacagcctg acaagttagc taccgcgcga ggcgcgcgcg ccatggtcac catgatccac   60
cgcatgtgac ccctcctgct ggtcgcagcc aactgctcg cgcatgccgc ggcctggccg   120
tacagcccga cgccgaagcc gccgcgcctt ccgcgcgcgt cgtcgatcgc cagcccgctg   180
cctcactcgc cctacacgcc gtcgcgcgtc acgccaactg gtaagtgcgc cgtgaacagt   240
ctcaagctgc gcgcgtgctg ggacgcgcgc aacagcctca tgcacaccgt catcgcgagc   300
aaggccatcg acaactgctg ccgcgttctc tccggcatgg ccgagctcga cgccgcgcgc   360
tgccctctga gcaccatcaa ggccaatgcg ctacgcgtca accgtcgggtg ctccccgttg   420
acat                                                                 424
  
```

<210> 18715
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: 49-LIB84-007-Q1-E1-E2

<400> 18715

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gtccacgcat ccgtccacac atgcgtccga agactacaaa gcccaaggga aaggcaatga   60
ggaagtatgt ccagaagatg atcacgttgg caaaggatgg atctcttcac aagaggagac   120
aagctctggc atttagttat gagaagcata tcgtccatgc cttgtttgct gaggttgacg   180
acacgtatgg agacagacaa tgtggctaca caaggatcat cccgacgttc tcgatgcggg   240
gagataatgc acctatggcg tacattgagc ttgtttatga ttttccatcc gttgctgtgg   300
cttcattggg gccatgcagg ctgggtgggc tcatgtttgc gcattgtcat ctggagattt   360
gtttctttct tcccttagca agttgttc                                     388
  
```

<210> 18716
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: 50-LIB84-007-Q1-E1-E6

<400> 18716

ctcgtaggtc gacgcaatcc tctatactga cgtcctaata actacaaagc caagggcaaa 60
ggcaatgagg aagtatgtcg agaagatgat cacgttggca aaggatggat ctcttcacaa 120
gaggagacaa gctctggcat ttatttatga gaagcatatc gtccatgcct tgtttgctga 180
ggttgcagac aggtatggag accgagaatg tggctacaca aggatcatcc cgacgttccc 240
gaggcgggga gataatgcac ctatggcgta cattgagctt gtttaggatt ttccatcggt 300
tgctgtggtt tcattggtgc catgcaagct ggggtggtctc atgtttgcgc attgtcatct 360
ggagatctgt ttctttcttc ctttatcaag ttgttctgta cc 402

<210> 18717

<211> 533

<212> DNA

<213> Zea mays

<223> Clone ID: 51-LIB84-007-Q1-E1-E4

<400> 18717

cccgacagac acgacaccaa gtcgaggagc tcgagggcac caatcatggc cggcgtgaac 60
tccagcgtcg tcggggtcaa gcccgccgcg gcagtgccgc aggccgccgc cgcctcatcg 120
ccggcggaagc ggggtgcagct ggtcgcgccc gagggccgcc gcgccgctct gctcggcctg 180
gcgggccgtct tcgccgtcac ggccaccacc gggatcggtc aaggccacga tcttcgatga 240
gtacctcgag aagagcaagg ccaacaagga gctgaacgac aagaagaggc tggccaccag 300
tggcgccaac tttgcgcgcg cctacaccgt ggggttcggc agctgccagt tcccctacaa 360
cttcactggg tgccaggacc tcgccaatca ggagaaagtc cccttcagca acgacgacct 420
cgagattgag tgcgagggga aggagaagtt caagtgcggc tccaacgtgt tctggaagtg 480
ggtgaagcac ctagcagcag cgtctgatgg gaattgggga gattatcacc tgt 533

<210> 18718

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: 52-LIB84-007-Q1-E1-E8

<400> 18718

aacacgcgtc cgctcctgga catattcaat cccgagggct ggctggaaat aacgtatcct 60
ctgatttcgt ttttatcact gtgggtctact agctggatgt ttggtttcta tggactaatt 120
ttttgtctat caattttagt tccctgaact aacaaatagc gaaactctgt attttagttt 180
ccatgtgtat ttgttaattt aggtatcact aaaacgaggg gactagtttg gtgtcggcat 240
gtcttctca attttgatgg attaattaac agatatgttg atgaatcgct acggattgga 300
cgatacgaca aagaaaacat attcgtgctg gagatatcag acctgccaga cgtctgatga 360
cgcgcagttc aagcgcacat gagcgatccg taattttgta acgatgagcg aatgtatggt 420
acacgcaaaa tacatagcct gcatgtatag caatatggta tatccgacaa 470

<210> 18719

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: 54-LIB84-007-Q1-E1-F6

<400> 18719

caccatcgct gatgatgctc ttctcagtgg aggtcagaaa caacgtgttg ctattgccag 60
ggcccttctg agggacccat ctatcttact gcttgatgaa gccactagtg ctcttgatgc 120
tgagagtga cttatgtca agagcgtcat cacaaaagtt agtcgagatt cagaggctaa 180
aagaactgtg gtaatcatag cacacaggct atctacaatt caaacagctg atagaattat 240
tgtgttgga aatggtaata ttgtggagga tggtaaacac attgatctta ttgagaaggg 300
tgggtctatat tcaggattag ccagtcgaca aaatgacgat cttaagtagc cctggatcac 360
agaatgtggt ttagtgcacg ccttcttttt aaatggaatg gcagaccgga gaatcgtctg 420
tcattattgg tctctttgca agaactgacg tggaccaag aagctcgaag taatctggca 480

<210> 18720

<211> 630

<212> DNA

<213> Zea mays

<223> Clone ID: 55-LIB84-007-Q1-E1-F4

<400> 18720

cccacgcgtc cgctaaatth cccaaccttc cctttcccct tcctcctcca gtccaccgca 60
 tcaccacacc ccgtctccac cccgtacaaa tccaaaagag ggcgaggagg gaaacagatc 120
 ggctggcggc aatcggtagc cggcttggct ggcacgatgg gcggcgaggc cgagggcggy 180
 gagcggcggc tggggcggyt gctgagcttt gggatcccgg acacggcgct ggggctagtg 240
 atggggtagc tggaggatcc ctgggaccgc gacgccatct cgctgggtgtg ccgacactgg 300
 tgccgcgtcg acgcgtcag ccgcaagcac gtcacgggtcg ccatggccta ctccacaaca 360
 cccgagcgcc tgttccggcg cttcccgtgc ctcgagtcac tcaagctcaa agcgaaaccc 420
 cgcgcgtcca tgttcaacct catctccgac gactggggcg ggtctgcgtc gccttggatc 480
 cgacagctct cgggcacctt ccacttcctc aagaagctcc acctgcgcaa gaatgaagta 540
 tccaacgaag atatcaacat ccttgtgcct gccaaaggcca catgctcgcc gcgctgaaac 600
 tcgaccgctg ctccggcttc tccagtcctt 630

<210> 18721

<211> 488

<212> DNA

<213> Zea mays

<223> Clone ID: 56-LIB84-007-Q1-E1-F8

<400> 18721

aatacttcaa ctacatgggg atgctggcgg tggagggcac ctacgacaag atggaggcgc 60
 tgctgaacca ggacatccac cccgtggaca tcctcctcat gctggcagcc tccgagggcg 120
 accgccccaa gatcgaggag ctgctccgcg ccggcgccag gttcgacgtc aaggacgtcg 180
 acggccggac ggcgctcgac cgggccactg acgagaccag agagttcatc ctcggttcg 240
 ccgccaagaa ggctgaacg accatgtgca ggtcaatcgt gcccggttct tctggacatt 300
 tggctgcatg taactaaatt cttcgttttc tggaatctgt ggagtgttca accgggggtg 360
 aacaagctgt ttgcagaggt agctttccgt agtcagctgt attcttacgg aagactgatg 420
 ggtgtactgc gacctgcaa attgctcaac taagggcatg ccttggttga gagctggcca 480
 attactga 488

<210> 18722

<211> 445

<212> DNA
 <213> Zea mays
 <223> Clone ID: 57-LIB84-007-Q1-E1-G2
 <400> 18722

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ccccgcgtc cgcccacgcg tccgcccacg cgtccgcgga cgcgtgggcg ccgcgtcgtc 60
ggcgggatcg actgccacgt gtggggcaag gccggcttca tcttctacta cgaggaggcg 120
cgcacggggc ggcccgtgcg ctgggacttc gtcgacgtga cggggatcca gcagttcgtg 180
atgagcttcg agcccggagc tgcgctggag gacgacgcgc agtggcaggc acctgcatac 240
tgcttcccgg acgacgacga cgccgcaagg agcagtgggtg aggaggaagc tggggatggg 300
cttgatgcgg cgaccagatt actcacgaag ctagcaggag ctgcagcaac gcattgactg 360
tgttgtgttg tagtaataat tacgatgcga catgtaccgt attaatttcc agcacaacag 420
atatgcttat gttcctgtag tacta 445

```

<210> 18723
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: 58-LIB84-007-Q1-E1-G6
 <400> 18723

```

cattgatgtt ccgggtgctc cttagtaagg ttattgcgga tgttgtctac caatggatgt 60
tgagtgccac aggcttgaaa cgagttatgg agaccaagat ccagacgccc atgaccacag 120
gaaagaacga gggacatctg gtgctggctg aagaaccatc gacctgatg gtactccagg 180
cggcagtaaa agaccgaacg attcagctca tgttcaccaa gtttgtgagg gagttgagag 240
aggagcccgt cttgatgatt agggtgagct ggaacgtgtt cctcatctcg gtctcatctg 300
ccgctgtagg cctgcaccgt ttcttgggtg tcttcttgaa ggaggatggg gccagattct 360
tggatgacaa aggcaagaaa atgaggattt ggctgatcga tttctccaag cgggcggcta 420
atctgggaga ttcaag 436

```

<210> 18724
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: 59-LIB84-007-Q1-E1-G4

<400> 18724

gcctgcctgt aacggtccta gattcacgga tccacccagt tgccttcag gctgtatgca 60
gcccgggatt tttgggaacc tcaatgagcg gcggactttg tggacctgct gatgcatctg 120
tccggcagta tctcggtcga tatctggatg tccacggagc ttcagtatct gtacctcaa 180
cgaaaccagc tggatggta tgcaccatcc aggttcttcg atctccagct gcgtcactgt 240
ttcacctcac ggacaatcgc atcaccagaa gagtcgcacg cgcattcata aagctctata 300
agcactctaa tctgtctctg gagcacaaca gtcttcatgg gat 343

<210> 18725

<211> 664

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: 60-LIB84-007-Q1-E1-G8

<400> 18725

cccacgcgtc cggccgctcg ggacgatcgg gaacctcaag gcgctgcgga cgctgtccct 60
ccgctcaac gcgctgtccg gcggcatccc ggccgacatc gggagctgca cggagctgcg 120
gcatctgtac ctccaaggca accagctgga tggacaggta ccggaggggt tcttcgacct 180
cgggctgctg cagcggctcg acctctcgaa caaccgcac gcgggcgggg tctcgccgga 240
attcaacagg ctccagaggc tcgctactct gtacctggag aacaacagcc tgaatggcac 300
gctgccgtcc aaccttgacc tcccgaagct tcagcttttc aacgtgtcca gaaacaacct 360
caccggccct gttccaaagt cgctcgccc gatgcccgcc agcgctttg atgggacagg 420
gctctgtggt gacctctag ccccggtccc aaccctccg ccgcgcgcgc agccgcctgt 480
tccggccgct gctaattgta gcatcagcgc gaagctctct actggtgoga ttgccggcat 540
tgctgcnggt gctgccgtgg cgttcttgggt tctgatcgcc gttatcttgt tcctctgctt 600
tcggtgtcag aggacaatgg gcgaaaaaat ccgcccagac ggccgggcgac gcggacctgg 660
acgg 664

<210> 18726

<211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: 61-LIB84-007-Q1-E1-H2

 <400> 18726

 tccacacatg caaacgcgtt cccgttcact gccgacaatt tggaaatgca agaagctgtg 60
 cctggcagtc gatctccttc aacgtcaagg ccggaggcat ctccaacaac accccgacct 120
 agttccagag gaccaatctc atgatccacc gcacgtaaac gcagggagag atctagggcg 180
 cgctctacgt ccgctccgag cgcacgctca atttctacga gaacgactgc atcgactacg 240
 ccgccgtgac cgtgctcatc acgggggggca agctcgttac gttcctcctg aacatcaaga 300
 agctcatcgg caccctgaag tccaacattt t 331

<210> 18727
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: 62-LIB84-007-Q1-E1-H6

 <400> 18727

 gacgctgcga tgctccctgc gcagtcgctt gtcgccccaa ggtccactcg tggcatgcat 60
 gcccaacgtg cgacaaatca catcggattc atcacaccag agatccagtg tagcaggaag 120
 ctaacaatgc attagaacga ggattccgcc actacacggt caaatggaga catcatcaac 180
 gaaaggcaca cccatcagca tgaccaccaa cacgtcggat caccatcagt atgccgaaca 240
 gcttcgataa cgctggatat ccgcactaag tggtcgacgc cctcccctga tcgcagtgac 300
 cgagcatact tcgacagtag gcaaagtgtt ggcaaccgtg tgggattcaa tggtaaccag 360
 atctgagaaa tgtcccaagc tgtgcaaaac tgttggtcca tacagcagaa gagcaattta 420
 catacacgcg aatacatggt tcccc 445

<210> 18728
 <211> 575
 <212> DNA
 <213> Zea mays

 <223> Clone ID: 63-LIB84-007-Q1-E1-H4

<400> 18728

ccggtgttcc tttcccgcat tttccagctg cccatatgaa tcacccgatg tacaaggctg 60
cagatatacc aggacatcaa ccaccaccat ctgatgagta tcccagagaga cctggccaac 120
ctgaatgccca gcatttcggtt aagagcgggtt tctgtaaata caggatgaaa tgcagatatc 180
accatccaag gtcgcgccag tctgcaccac caccagcagg tcttagcccc atcggcttgc 240
ctatcaaacc tgatcaacct gtgtgcactt actatggacg ctatggcttc tgcaagtatg 300
ggccagcctg catgttcaac cacccttca acttcggggc tcccggtgccg gcagcaggac 360
caccctccc tgggcagtag cctacgcatg gaaacttcgc ctagcaggca cgtgacgagc 420
gattttctga gtcgccacga ttgcttgtaa taacctctc cacctgtaaa gtagcgtaga 480
caaaagctgt acgtggttgg cagtagacat ccagcatgta agcgcaacga agttgcatgg 540
agatgggtac gttacagttg gtattgcaaa cttta 575

<210> 18729

<211> 64

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C10

<400> 18729

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaa 64

<210> 18730

<211> 83

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-C8

<400> 18730

catccagccc ggcgccgccg ccgacctgac cggccagttc gaggtgggag acaaggtgct 60
ggccaccagc tccgtcttcg ggg 83

<210> 18731

<211> 84

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-D2

<400> 18731

aaaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaaaa aaaaaaaaaa aaaa 84

<210> 18732

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-E8

<400> 18732

aaagacgcgt gggcggacgc gtgggcggac gcgtgggcgg acgcgtgggc ggacgcgtgg 60

gaagcaaaat tctgcgggag aagatgtatt ttagcatgtt tttaaccttg gggtcagact 120

ctttcgctgt caaaaaatca aaaaattaca gacgaatcac gaaaaactaa aaaacatata 180

tcgagagctc caaa 194

<210> 18733

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-G1

<400> 18733

gtctcactat ggtggagggc cgtagatta ttgtttttga tactacgatg ggggagcaca 60

tagcccacca gaaatattca ttgaagacag acgttagtc cctattttgt ttatgggtat 120

ttctgttttag acaaatttag tatcaattta atctataaaa tttattatgc aagaacaatc 180

tattggaaag gtaaagttaa ttaaaaaaaaa aaagaaggaa a 221

<210> 18734

<211> 181

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-001-Q1-E1-H1

<400> 18734

cgacccacgc ctccgaaatg atatagctta ttacattttc taccactttt cattcctaac 60
gctgagcttt ttatgtacta tatctcatat tattattcat catataagat atagtacata 120
aaaagctcag cgttaggaat gaataataat atgaccgcct tgtgatctaa aaaaaaagga 180
a 181

<210> 18735

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G4

<400> 18735

ccatcacatt caagaacaac gccggcttcc cgcacaacgt cgtcttcgac gaagacgagg 60
tgccgagcgg cgtcgacgcc accaagatct cgcaggagga gtacctcaac gcgccaggcg 120
agacctactc cgtcaccctc accgtgccgg gaacctacgg cttctactgc gagccgcatac 180
aaggagccgg aatggtcggc aagatcaccg tcaactaatt aagctagcta tcgatcgata 240
tccattcatg tattagctgt tgcttcctgc tttgtactcc gccgatctgt ccatctctac 300
atgttttcgt cttcacacaa caacctctgc tacgactacg tatatatgca tgctacgagc 360
tgattgattt taacgagaaa aacaac 386

<210> 18736

<211> 120

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-G5

<400> 18736

agagatcacg ttaaataagga gagctaccgc tgggacttgg tggtttgtaa tatatgatcc 60
aaccagtgat gaatcaatgc attcacttgt gtacacatat acatttctac cttgcataag 120

<210> 18737

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-002-Q1-E1-H10

<400> 18737

gcgccccgtc gatcggcgac ccggatggcc gtcgtccggg cgtcgtccgc gcatcagaag 60
cagcaccgga ccaaggagtg tgcggccgcg gcgcccggtg cggcggcgct ggtgctgccg 120
gaggtcgcgg aggccgcgcc cgggatctcg ccgtcgtcga agaacttcct cctcagcatc 180
gtctccggag gcgtcgtgct cgtcgccatc gtcggcgccg tcgtcgtgtg ctctaacttc 240
gatcccgta agcggcgctg agctcaatca actacacgtg cacacatgca tgcagcgttg 300
tatgttgcat tgcattgctg acgccgcctg tacctatgta ctacttccca atgtaaacag 360
cgtttaatct gtgaaaaaaaa acacaaaa 388

<210> 18738

<211> 220

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C4

<400> 18738

aaagtcactt gggctatcgg caaggagtg gctgaccttt ggcctaggat cgccagtgca 60
gcaaattgca tcgtttgaga gcttggttga atgtgttttag acttgagtat gatcatctca 120
attgtgtgtt gcaggtgttg taagggtgct attggacttg atggctcctt ttatgtttgg 180
tcactcaatt ctgtagtga cagaaatttc tgggtgcctc 220

<210> 18739

<211> 58

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-C9

<400> 18739

aaccacgcgt caaatatata gaagatggag agtaaaaaaa aaaaagaaaa tatataat 58

<210> 18740

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-D8

<400> 18740

accacgcgt ccgcccacgc gtccgggcaa acaagttgaa gcaatctctt ccccaggtt 60
tgaccgtcga ggaggtctga ttggatacat ggcaacgccg agttgaacta cccaagcttc 120
tttatcagta gcagagcatg ctactctatg tacttttggga acctaagcta ttagacctgt 180
cagtgttggga tgtctggatc ttgcattttt ggagaaatac caatttacct cgttcaagga 240
tgcaagtata tttettgttt aactgcacat tactttatat ttatgcctgt ttcataacag 300
ag 302

<210> 18741

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-G7

<400> 18741

actctaaagc gcgcctcacg aagatgggggt cgcacatgaa gaagaccatc ttcgaggagc 60
agacggccaa ggcggtcatg aactggcgca agacggccaa ggataagggtg cggcagcggg 120
aggcggcagg cttcctcgac gtgctgacga gcgccgacac caccgagagc cacagccgcg 180
cgacgtcgcc gagccggggc aactcgccgg tgcacctgct ccacaagtac aggggcacgt 240
cggaggagcc gcagagcgcg ccggcgctgc cggggcgggga gctcggggac atgtaccgg 300
tggccgacca acatcgctg caacaggctg gacccc 336

<210> 18742

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-003-Q1-E1-H9

<400> 18742

tacgtggtca acaagcacgc cgcgtcttc acgtccacgg tcatgagcct gtcctggcg 60
cgccccaacg tcaagctgtt caacgccgtg gccgtggagg acctcatcgt caggggaggg 120
cgcgtcggcg gcgtcgtcac caactgggcg ctcgtgtcga tgaaccacga caccagtc 180

tgcattggacc ccaacgtcat ggaggccaag gtcgtgggtca gctcctggcg gccacgacgg 240
gcccttcggc gccaccggcg tcaacagggt ccaggacatc ggtatgatca gcgccgtgcc 300
cgggatgaag gcgctcgac 319

<210> 18743
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A3

<400> 18743

gtcagagaat gaacttaact ccatggtagc tttaatagat tcaattcgat caactgaaaa 60
agctcaaaaag acttcaagaa gtgacgtttc caaactttcc aaagatcttg aggaggcaaa 120
tgaattgaat gaagacctga tatcaciaat ttctaaactc cgacaggaat ccaatgaaat 180
gcacgtacat atcactaata aactaggaca ggcacaatca ctagctaaag ctctgtcaga 240
agaattggct tctactacatg aaatagctca gaacggacaa caataactcg aagccacctc 300
gattgagctg gcatctattg cagaagctcg taataacttg aagaaagaac tgctggctgc 360
gtagaacaat ttgcagtcaa ccacacatga gcttgt 396

<210> 18744
<211> 76
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-A7

<400> 18744

accacgcgtc cgctaaaaaa tactacaaat aatccaaaaa agtaaagaaa taaaaagata 60
atacatcatg ggctgt 76

<210> 18745
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B10

<400> 18745

atagctctgt acaggtgatg gagatcggtg ttgcggattc ttatcgtctt cctggttaca 60
tacttacatt attgttatga tctgatcagc ggtaggtttt gtatacgctg ctcatcgatt 120
cgtctgcctg ctattttcgt atacgatgc acttgtttta ccagttgctt tcgttcaaaa 180
aaaaaata 188

<210> 18746

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B3

<400> 18746

cccacgcgtc cgccaagcg tccgcccacg cttcagcggc cgcatgagat cggcctcatt 60
caccatcacc acccgcacca gacactagca tactcgacca ctgatacagt gaggggagca 120
ctccgcagcg attgcccgtt gaagcgcca tggaggcacc acctactgtg gctacagcat 180
cccgcacata caggcgctgg cacatcgtcg cctgcaatgg cctccgcgcc gtgatgtgga 240
tctgggtttt ccacacggct aagcaggatc gggccttagct cttgggtttg cgtcatccct 300
gggatggaca tgatgaccac tctcatggtc atggacacag gcatgaagca tcatcatcgg 360
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<210> 18747

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B5

<400> 18747

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tctgatatta ttttgtatat ttctcatgg ggaaaaggag gtaagaaaat gacagcagag 120
ggaaccgcac ggaaaaagca gcatgccagc ggaaccaag tc 162

<210> 18748

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-B9

<400> 18748

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ctgctggact acgatggcac gctgatgcc aagcgatta acaagagccc gtccactgaa 120
tctgtgcgga tcctgaacag cttgtgccga gacaaggaca atgtggtgta cctatgcaac 180
gggtatgacc ggcgcaccct tcatgagtgg ttcccttctg agaaccgtgg catagccgct 240
gagcatggct acttcctgag gtgtaagagg gaccgcgaat ggaagacctg tgcgctgcc 300
acagactgca gctggaagca ga 322

<210> 18749

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-D4

<400> 18749

cctagagcac acagtctctg gcttctggca aactatttcc tgagacgttc atcatttcca 60
tcacagaaca ataaagctcg ggtgccttca gttgatttcg acgtacattt ccctgccgat 120
ggtgtccagc ccactgttgt cacaggcgaa cacgctcggg tttagacttg tgatgtctac 180
tactgttttg acactcgttg taattctgta tctcgcgtca gactgtgata tataagcagt 240
acactgtgtt tcttgcaaac gcctggaacc ttttgtt 277

<210> 18750

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-004-Q1-E1-G9

<400> 18750

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tttttctggg tgaaaatgtt tgtaggataa ctttcggcag actgggcaga accgggtggg 120
ggctcgcgag ggtgttggga agctatctag c 151

<210> 18751

<211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-005-Q1-E1-A9

 <400> 18751

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 acggcgatcg cccgggtggt ataacaacag ctgctctgcc tgccatcagc caaccgctaa 180
 tctacggggg gcttcattag tacgtaaaag ggcctcaca cttggtatac gtaaaagata 240
 tactagttat taatacgta aaggattgag tatacggcac ctagatgttt catttgtaca 300
 cgattttcat tctcttctcg accatatatt aatagtaatt aaattaaaaa agcacaaaaa 360

<210> 18752
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-005-Q1-E1-C2

 <400> 18752

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 catggcgcg cttcatggttc ccaagaaggt ggaggtcgtc ggagcactac cgaggaacgc 120
 gcttggaaag gttgagaagg tcaagctccg ggaggcggca cgtaagctgg cgccacagt 180
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 accggtggcg cacgtcatgg cgggtgtcaaa gctataggta gcagcagcac acagcgccgc 300
 tccacggcac agctagctcg tgctacacag taaacttctt ttgccaataa gttttggagc 360
 actcaaacat atgacatgcc aaagctcct 389

<210> 18753
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-005-Q1-E1-F5

 <400> 18753

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agctaagggtt aagggtcccaa ctccccgttg cctggggcaa cccaattatg gccgcccctg 120
ccccctccgg cgcaactaat gccgccgct caacgtctcc gctgatggaa ccgccgtctc 180
cgttc 185

<210> 18754

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-B12

<400> 18754

gaaagaaaat agggtaaacta aacaatatat ttggcaagtg ctatcaagaa acaaataagaa 60
ggaaaaatac aagaagcaag ttgtttggcc ctgatcgag gacctattgg tgagctgatg 120
tttccgtgag taatgtaacg acagaaaaaa gaagcaacta ctacataaac tatttataga 180
agcggcagat tcacttcata ggttgtagca actgtcttta ctaaaagtgt gtttggtttg 240
aggaatgaag tgatccatct tcttctcaag aaaagatgga aagagga 287

<210> 18755

<211> 207

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-D12

<400> 18755

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tgacaggtgt gccatgttgt ccctgatcca tggcagacca tcagcgatat ccgcagcttc 120
aacgcggatg accactgaat ggcacatagc aagcatgcaa gctcatctga cctgcgtctc 180
tttaccttat tggaaagcat cactcac 207

<210> 18756

<211> 79

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-006-Q1-E1-H4

<400> 18756

gggtccatcc aaacgtccgg attaattgca tgcattgcata tcattagaga caaggaaaaa 60
agatagatca acacaaaaa 79

<210> 18757

<211> 116

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-C10

<400> 18757

aacacgcgtc cggtagcagc cagttcgttg taaattacaa ataaatatta caagtaataa 60
gaaaaaacac ggactttacc tgtaaaaaaa acaacaaaaa caaaaaaac aaaacc 116

<210> 18758

<211> 88

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-007-Q1-E1-G9

<400> 18758

aagttcatgt gcatctgctc ctcatgtcta tgcattatgac aacgttgcca taacacctga 60
atcattcaat agtgcaaaag aagaagac 88

<210> 18759

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-A10

<400> 18759

gctaaaactt ctgattaagt gattataaca gtctatgggt atagttgcat ttacaactat 60
acgtctagta aaaaagataa gttttgggct atgtatgact atttcttgta atcaattatg 120
cactggttct tgcactgttc atgttcagaa cacatctggg gagggccggc tgagcctctc 180
gtcctccagt agctcgtatg gattaatgta cgggtggcagc gacaccggcg tcttgcttgc 240
atcgtgtaca aaactcggtc caaagtacac gtataaaaca gcgaaaaagg agacggtgac 300

aagaatcatg ggcccaaacg ctag

324

<210> 18760

<211> 94

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-E1

<400> 18760

aaataaatca aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aataaaaaaa aaaaaaaaaa aaaa 94

<210> 18761

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-008-Q1-E1-F5

<400> 18761

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ttttgttttt tttttttttg ttttgtgata cttcaagtaa atgattgtta gggaaaatct 120

ttacagcaca tgacgccgag acacattacg tggcttaaag gcgcgcgctg gcgcgcgcga 180

gggactaggg caggtgcaca cacggccagg ccgagcgacg tgatcga 227

<210> 18762

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-010-Q1-E1-B7

<400> 18762

aaaaaccaat gcctgtttca aataaaatgt cctccaatgc tgatgtcgtc agatccagca 60

agacaggaaa ggatcctgaa gaagaaaaga atcaaaattc cagcagtgat attagtgaag 120

acatgataaa agaagccagt gaccaaaggg catcttagtt tagaaagaaa tctgatactc 180

gtaacttaca acgaggtcgg cgtacttttg aagaagatct caagcgtcag aacaaagcgt 240

tagatgcgta taagaatttt agtacgacag gattagacaa gagtttgcaa gaacctgcaa 300

atgggacacc gaagaacgac aa

322

<210> 18763

<211> 187

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-C9

<400> 18763

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agatgcacgt agacacacct acgtacatga gcacaacgac tgacgccaag cttgcaaaga 120

gagatagcat cctggccagt tcggtgtctc tctctctcac acacactaca caagacttac 180

gcccggc 187

<210> 18764

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-D11

<400> 18764

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acgacctccg cctccggggc tcctacctgc gctacgacct caacaccgtc atcgcttcca 120

cgcccaagga ggagaagcat agcctcaagg atctcaccgg caagctcttc agcactatcc 180

acgatcttga ccatgccgca gagatcagga tcaccccgga ggccgaaaaa tacgtcggag 240

cagccataga tgcgctcggc gacgtcctcg ccaatctacc ctagatggaa gctaaaagat 300

cggttaacga tggccaccta atttcgggac ttgtgtttgt tcatatgggg ccg 353

<210> 18765

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-E10

<400> 18765

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<210> 18766
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-E11

<400> 18766

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 gcagtccgaa tctgccagga tcagggataa gtatcccgac agaattcctg tgattgttga 180
 gaaagctggc aaaactgatg tccccgagat tgataagaag aagtaccttg tccctgctga 240
 tctcactgtc ggccagtttg tctatgtggt gaggaagaga atcaagctga gccagagaa 300
 ggccatcttt gtcgttgtga agaacacctt ggcaacaact ggctctttga tgtctgcaat 360
 ctaagacgag aacaaggacg aggatggctt ccttt 395

<210> 18767
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-E9

<400> 18767

gcagcaccat ggcggcgggg acgagagcgc ctgcggctgt gggctgttga cgatggccca 60
 gggcttc 67

<210> 18768
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-012-Q1-E1-F10

<400> 18768

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gcggtgcgga aggaggagcg acggaaaggg atcgcgaga tgttggtcca agaagcagag 180
gctcgggcaa ggagctgggg atgccggtcg atggcactgc actgcgacgt aaacaacgtg 240
gccgcgctac gcctgtacag aaaccaaggg ttcaagtgc tacgagtgcc ggaaggagct 300
aatggcccg aaccaagat agctaaagga gcggagtaca cttcatgat gaag 354

<210> 18769
<211> 330
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B1

<400> 18769

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tcgcgaacta ctgcgggagc gtggatgtgt tggccgtcga tggcgaggac tgcttggtga 120
ggtacgacgg gccggaatcc atcggcagcg gtatcaaggg gccatcaag gagaaattcc 180
cggacatcac cagtgtggtg tttaccctgt aaaacaccga ctggggctat gcatattcgg 240
ggcagtccac agcagatgaa catgctgac gaacttcata cttgtaattt gcaaagattt 300
ttgtgttgaa aataaaaatg tcccgcaaaa 330

<210> 18770
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-012-Q1-E12-B7

<400> 18770

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tcctggcctc taaggtttaa gcgcaatgat gttgttgtaa gagcaatatt ggaagagtgt 120
ggcccgcagg ggcttcccat tgatctcaga ggtaaaaggg cattcattgc tggagttgct 180
gatgataatg gctatggatg ggcaattgcg aaggcacttg ctgcggctgg tgctgaaatt 240
cttgtgggta catgggtgcc ggcacttaac atatttgaga caagtctgag gcgtggaaaag 300
tttgctgaat cacggaatct gccagatgga tctcttatgg atattgtgaa actctagcca 360
cgtgatgc 368

<210> 18771
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-012-Q1-E12-F8

 <400> 18771

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 gctccatgca cgtcatcgtc gggctccgct cgaagtccgc caccgttccg tgcagcggtt 120
 cgc 123

<210> 18772
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-A2

 <400> 18772

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 tgtttgctcg ctggagtgtg tgaggaattg aagtttcaag acgggaccag aatgggtggg 120
 acgtgtttgg tttgcgtttt tagacctggt ctgtctagcc agctatgccg ggctgttgct 180
 tgcaaaaaaa aataaaaaaa aaaaaaaaag gaacataaaa acaaaagcaa catcaaataa 240
 aaggaaaaag caaatacaaa gaacatatca agcaaaaaac aa 282

<210> 18773
 <211> 195
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-D3

 <400> 18773

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 gcctggactg ttagagatgt ttacgcaaag tttctttgga agaagatcca ctcagacacg 120
 tgtaattggc tcacacgggc tcacgaaatg tagttatggt ctatggaaat ttaccatggt 180
 gctaagaaat caagc 195

<210> 18774
 <211> 54
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-G9

 <400> 18774

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<210> 18775
 <211> 79
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-H2

 <400> 18775

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aaaagatggg aaaaggaaa 79

<210> 18776
 <211> 297
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-013-Q1-E1-H8

 <400> 18776

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ttgaagacga taaaaaattt tagattactg cgacgtccat cgacgattgg tcgatgttta 180

gactgtttat tgtgtaccat taccatactt gcccggttaat cgctactatt caatagtaat 240

agtaggcttt tgtagggcta gcagctgctt gctgctttgc aactttaagc ttgtttg 297

<210> 18777
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-014-Q1-E1-A10

<400> 18777

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gggacgtgcc cctgcacgat ccccttgtac ggacgtgggt tttggccact ccttttagtgt 180
ccctttcctt tgtagaaata tcaaaagcaa taaaggatat ggtaccctt tttcaaaaag 240
gtacctcgaa actaaactgc 260

<210> 18778

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-A4

<400> 18778

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aagcaagctc ataccctaata cgccgtccgc cggcgacgcc agcacgatgg cccgctacga 120
ccgcgccatc atcgttttct cccccgacgg ccacctcttc caggtggggg acgctctcga 180
ggcgcgtccgc aagggcaaca ccgccgtggg cgtccgccgc acggacaccg tcctcctcgg 240
cgttcgagaa caagtccaca cccaagctcc aggactccaa gtccgtgccc aagatcccgt 300
gcctagacac tcacatacct ctggcgtgcg cgggggtgaa cgctgacgcg cgcgtgctca 360
tcaaacgcgc gcgggggtcca gtgccagagc caccgactca 400

<210> 18779

<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D2

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gtcgtctctgt gtcagttggt agtgctgtgt tcacctcgg ctccagcaga cccatgcatc 120
aaccagcatg gactgtggat cgatggatgc tgttactcct gtcaggattt gttctaagtt 180
aatcctaagg aaaaaatggt gcttcttggt gctgcaaaaa aagagatcat agaaaccagt 240

cagaaccaa

249

<210> 18780
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-014-Q1-E1-D9

<400> 18780

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cgtcaacaat ggacgaggcc gaggatgcca tgaagcagct cgaggaggtc ggcgccaagg 120
tgtccagcgt ttgacactag gtatactgac cctttttttt ttctctcttt tttttttaa 180
tttcgtttctt tgatctttgc cccccaacct ttggtgtatc cccattgccc tttataagga 240
attgcggttt gccgagaaaag aatgaccgcg taacgaggcg tcacaagata cgtgtaaac 299

<210> 18781
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-A5

<400> 18781

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tcatgctgca atctacaaag aattccagac cgtagtgtag taggcatgg cgtcttgag 180
atagatgtcc gagaagaagc aggttgaagc atcgctgggt gccttcatgt atgtgaatct 240
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tacgctcgta tgtgaatctg ttgatgtcag gcagaaaatt gggtaaaatt gttgcattaa 360
ccgatctggt attcgttgta tatataacgc tgacatcagt aacctaataa agataagaga 420

<210> 18782
<211> 64
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-B10

<400> 18782

cccacgcgtc cgcccacgcg tccgcggacg cgtgggcgga cgcgtgtgac tagttctaga 60
tcgc 64

<210> 18783

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-D8

<400> 18783

ggcgtccatc taccgcaacg gcatcaacga caacgtgcgc atctacaaag gtggcgagaa 60
tatggatagg gtcacccgcg ccgtcgcagc atcgagactc accacgctgc agcagtggta 120
gatcggtagg tcatgagcaa ggaatgcaag catcggtcga cgtacaaaca caaatagtgg 180
ctctcgagta gccattgcat aggggatatg atcaattcag gcatccaacc atccgctgct 240
gctgtgttag acatgcggga gggggacgtc gc 272

<210> 18784

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-E6

<400> 18784

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atgttgtatg tacagttttg ccacagagtg gtaatctgct tatagtccac cacatggcat 120
acaaagaaag gatgttttgt ccccttttcc atggaagggtt acaagcaaga tacctgggtga 180
taggtgttct agctgcaaca tgatttgtga agtttatata cttgtgttgt gccagcaaaa 240
tttctctggg taataggta aaacatgtga cgtgcacca atcataggta ataatacctt 300
gttgatgaag ccgaggagag cggagatgaa ct 332

<210> 18785

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-015-Q1-E1-F4

<400> 18785

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aggagttttt gaggattaag ttgaggtttt gtaaagaaga cttgttcggtt actttttttg 120
tggattatta agatatatcc tatgtgtagt ttatgcttaa aatttaaaac caatgttgaa 180
tacaaaaaaaa aaaaaaaaaa aaagaaaaac aaag 214

<210> 18786

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-A7

<400> 18786

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gtctgaggct gcctcctcat tggcaaccgg attgcctgct gctgggtggat gtggtgatca 120
acagtattat tacagagcca tgctatgtga acattactag tagcagtgcct cataaaagct 180
acaatcccat gtcctttttt tccccagtca tgtaaaactt ccaaactgct ccatggttca 240
aaactctggt cttcaatata tcatcaatta tcgatt 276

<210> 18787

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-016-Q1-E1-E6

<400> 18787

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ttggtttcgc ccatcaacgg atcaacctta ttggttatct gaacgacgaa ttgatatggt 180
aactcgtgaa cttcgttata tttaggcagc aaaaaaaaaa aaaaaaaaaa aaagaaaaaa 240
aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaagaaaag aaaaaagaaa 300
a 301

<210> 18788
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-E9

<400> 18788

gcgacatgac ggcaataaaa gcagatgaca tcttgagcac gctacagagc ctggaccta 60
tccagtaccg caaagggcag cacgtcatct gcgctgaccc gaaggctctc gaccgccacc 120
tcaaggcggc ggggcggggc ggccctggacg tgcacgttag caagtcata tggactccct 180
acaaggagca aggctaaaag gcgaactgct ccgtgtctca gatttagact cgctgaccga 240
tgcgatgcag tccctgtaca tagcatctcc ccacagctca cttgacttga cttgactcgt 300
gtaccgtgaa actctacttg taactttgaa catccacatc gttgtctcct caaaaaaag 360
gaacgaaaaa 370

<210> 18789
<211> 184
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-F6

<400> 18789

aaggatttgt agatatatgt tttaacgtaa aatccaaaac aaatccaata acttcaactc 60
aaagtattaa acattaagca taattgaagt tattggattt gttttggatt ttacgttaaa 120
ggattttag atatatgttt taaagttata ttattctctg tttgatgaaa aaaaaaaaag 180
gaaa 184

<210> 18790
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-017-Q1-E1-G6

<400> 18790

aatgacccca gcgcctctcg tggcgctga aacaactaac cttgaatatg ctgcaagggt 60

actccttgtg actaagtacc gcacgcttcc agtgggtcgat agctcaggca aactgggttg 120
gatcattaca cgaggggaacg tcgtccaagc cgccctcgaa atcaagaaaa aggttgaagg 180
gacactctga gatgactacc tccaggtatc ctttttgctg ccacatgggg ggcttaggac 240
ttggacacat ctctagttgg caactgatca atcaaagcga ctgtcagagt gatcgatgaa 300
agtcgctatg tttatgaaga tttgcccgga gaagcacagg tgtatgtgta gtgtttgtta 360
tatatgctga tgcaatcctt gctggccaaa acacaggtta ccgattg 407

<210> 18791
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-B4

<400> 18791
ataagaagca aacaacaaag gccgtgctca ttcagaccct tcgtgtgtgt gtttcttgaa 60
cgttttatatc acatatgcag cacaaacggg aaatagtagt gcgaggacag tactacagct 120
catattgcat cgcaacgtgg aaatttagtt acagacgcgc ccagatcgag aggtacagca 180
cgacaaagag aggcaagaga gataggggac cggagggcgg ccggccgggg cccaagaccg 240
atgggctcgt gcgcaggaag ctgatgaggc tcctgtcgct cgtgcccttc ggctgccgtg 300
ccggacccat cgacgacgcg ccg 323

<210> 18792
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-021-Q1-E1-F10

<400> 18792
ctggaataaa tcaagattga ctggcactga aagtgtcatc gcgtcactct ttcatactta 60
ttaaatatca caagtctgtc ctgagatctc agcctgggtgc ctgcgtgctg cctttgcctt 120
gtatatgacg ttttactttc ttttagtctc aattattcaa tttttttttt actaaacaaa 180
ccaagacaac agaaaaa 197

<210> 18793

<211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-021-Q1-E1-G10

 <400> 18793

 aaccacgcgt ccgaagctcc ccaacgaagt gcgagcgacc cacgtccaca cgacacgaac 60
 caccaccacc aaccagcagc cgcaccacgc acccagcgca aagcgatggc gtcgctcacc 120
 atgatggcgt ccttcgccgc cgtggcggtg gccgcgccct cgcgccgcgg caccttcgcc 180
 gtggtcaggt ccgccaaggt cgaccgtgc caggagcccg ccacgctagc agcaaccgag 240
 gccaggcccg ccgccgacgg acgccgcgcc gtcattgctc cggtgtgtgc ggccggccgtg 300
 gcagccatcg gcggcgccgg cgccgccatg gcggggccca agaacgggac ccccgacgcg 360
 aagaataagt acgcggccat ctgcgtcacc atgccc 396

<210> 18794
 <211> 104
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-A3

 <400> 18794

 gcaaggacgc atgggttttag aacaggttac atcaatacat cgtagtccaa gatgattcca 60
 ggccttctgg ggcctgggt ggcctacaca ggggtgcagtt tgtg 104

<210> 18795
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-022-Q1-E1-D8

 <400> 18795

 acccagcgt ccgaaaaaca aggaaaaaat aaaacaaaaa cgaagagaac caagaaaaga 60
 cacttac 67

<210> 18796
 <211> 346
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-A6

<400> 18796

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ggctggtggc gaggagtctg cgatcggcgt ggtgctctcc gccaaacca ccctggggga 120

ggagtctgag ggccagatcg tcgccttcga tcgacctcc aacctcctcg ttatccagga 180

gggcgtgggg agggcggaga gcggccagcg gcggcacgtg acggtgctga aggcgaacta 240

catccgggag ttctctgtgc tcaccaacgg agacgacct ctcgatcctg ccggttgcac 300

gccggacctt aactccattt atgcccggga ggatgctggc actcag 346

<210> 18797

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-B6

<400> 18797

accacgcgt ccgcggacgc gtcggcgggc gcgtgggttt tgccggctgg gcagcaggac 60

atgggctcat gcgcaagtgc ttccactgca tgagcaatgg gcatcacacc attgcggagt 120

cttttcccat tacaggatgc acaccatcgg tggccttata cttcagcggg ggcgtcggac 180

ctgt 184

<210> 18798

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D8

<400> 18798

aaacatggcc gcctctccga gcccacatcg ccatggcagc cgtgccctgc tcccagctcc 60

ctcacctccc ccatggccga gcgccctctc cagccaccgg tgctcgccaa gcccatctcc 120

catggcgccc agcccagttt ccagcgccct cctccatcac cgcgcacctc tggtcgcttc 180

agctcatctc cctcgccgtg gagctctctg cgtgcgcccc tggttcctgc accctggcct 240

ccctcatctt ccctgggtcc ggccatagct ggccgccgct gctccatctc gagtcgcgct 300
 cgcccagctc tgttgggtgc gccctccctg ccgcagctcg cgctgtcgt cctgcttact 360
 cgagctcgcc ccggc 375

<210> 18799
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-F2

<400> 18799

aaatacaaaa aaaaaaaaaa aaacaaaaaa aaaaaaaatg aaaaaaaaaa aaaaaaaaaa 60
 caaaaaaaaa caaaaaaaaa a 81

<210> 18800
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-G6

<400> 18800

gggaagcaga agcgagacaa atccccagcc ggctccaaac cctagccacc tcccccgctc 60
 atcccttttc atcaccaga tctcgctggt gtctgctccg cctcgcttcg atgtgaccct 120
 accctacggt ttgagaccgt gttgcggtgt gtgctgtgtgt cgcggcgatt cgcgactcga 180
 gtacgactca aggtgtcaga ggcggtgcga gcgcaaataa aagactctgc gcaccgcact 240
 acggtggtgc tccggcggct gccgccggcg atctcgacc aagtcgctcg ggtccaggtc 300

<210> 18801
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C4

<400> 18801

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 ttggaaatgt gattgcaaca cctgaacatg aggaagcaac tataataacg ggcggtgact 120

ctacaggttc ttgacctaat tacgcatttt cgtcacctga aacaccttct aaatgggtcac 180
 ttaaataaat tcagtggcct cctttttaca acttctcgac ggggaaaaca ccaagcttga 240
 caacattata ccctttacgc taaatcccc tttctccaac atgcgatat 289

<210> 18802
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-C6

<400> 18802

cccacgcgtc cgcccacgcg tccggtataa tcagccgctt caattcaaga aagtaatgtg 60
 gcatgtaggt gacccaatgc cccacgagga atctgtggca tcagcagcgg ttggttctgc 120
 aatcaaagta aaagctgctg ccattgctgt gtgcacattc tcacggagag ctgcgacgtt 180
 agtagccaag tagaggtgaa caatgccaac tttagcagtt atcttccac gtgaacgatc 240
 cgatccatca aagtggcgtt ctta 264

<210> 18803
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G3

<400> 18803

actggcactg gcagcgaaga tccaaagata gcacaatcgc atctcacacg ccgagctatt 60
 tctactttga gagaatcccc ttctcccaca aggagcaggt aatttgaggc agagaccgac 120
 acagatggca gcggttatgg tgtctcgcca aggccgggag ctgcagcggg acagcgcgag 180
 cacgggcggg cgcggtgtgg tgggctgctg cccgtaccgc gtgcgcgggg gcgacggcga 240
 ggtggaggtc ctggtgatca gctcgcagaa gaagggcccc gcggggggcg tgctgatccc 300
 caagggcggg tgggagctgg acgagtccat ggacgaggcg gcccggcg 348

<210> 18804
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-024-Q1-E1-G5

<400> 18804

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ggaaaggcca agctcaaaaa tggtttttat ttaggcttac tggaaatgat gatgagatta 120
accttaatgg tgatggatct gagaagccag agtttggtga atggacatgg atgactcccc 180
aggaagtat tgaaaaggca gttgatttca agaaacctgt atatgaggaa gcattgaaac 240
actttgcccc ctacctacag tcagatcccg ccgcttcac atagaagatt cgaccaattt 300
gcatacatta tctttttttt ttagttggaa actaccctgc tgtatctgga cccccaataa 360
tttgacacga cgca 374

<210> 18805

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-B4

<400> 18805

aaagcagaac aagttcaggg cgtccatgct gaccttcgac tttggccgga ccgcgctgga 60
cgtcgcgtga tgaacgcaca tacgctgccg gtcgagcggc attagtagtt ctctaaatat 120
agacagagga ggtaactttc gagaagaaaa aaaagttata tacagtgtac ctgggtttta 180
ggtttttgtc aggattcaga aagctgaatc*tgtaatatca atcgagctag gtgtaaacag 240
ataaggcgag cttgtcacgc gtactccgat cgctcactg taatggaaat gaagctaaaa 300
gatcatgggt gtcggttcac atgtcagtaa cgaaatcga 339

<210> 18806

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-025-Q1-E1-F11

<400> 18806

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaa 69

<210> 18807
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-026-Q1-E1-C11

<400> 18807

agctctcagt ttgtatgatt atgggagtct aaactgagag atgcatcggt agaattaatg 60
ggtacaaact gctagcttta aaaaaaaga 90

<210> 18808
<211> 243
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-B11

<400> 18808

ccacgagtcg gctatgttca agctagtcaa attgggtgggc attccttaca tctttgggaa 60
gcctactcca ttctggatcc agattattgt ggcatggcac tcaactgtac agtagattga 120
tcattccattg gcaaagtcca tcgaaggatg tgctgactgt gatcctccaa cgtaagggtgt 180
gtaaaaagggc aagaaaataa ttgttggggcg tcgagacatt cacttgtaaa aaaataggcac 240
atc 243

<210> 18809
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-E9

<400> 18809

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cctcgacggc agcctgccgg gtgacaatgg ctctgacccg ttgggcctgg cggaggaccc 120
ggagaacctg aggtggtacg tgcacgcgga gctggtgaac gggcggtggg cgatgctggg 180
cgtggccggg atgctgatcc cggaggtgct gaccaaggcc gggctgatca acgcgccgca 240
gtggtacgac gccggcaagt cggagtactt cgcgtcgctg tccacgctgt tcgtgatcga 300

attcatcctg tttcactacg tggagatccg gcggtggcac gacatcaaga accccgggag 360
 cgtcaaccag ggaccccatc ttc 383

<210> 18810
 <211> 171
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-027-Q1-E1-F11

<400> 18810

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 acttctgtga gattgtctta cggttcacat ttcattgatg cctgcctaata aagccttctt 120
 ttcccaaata caactattaa cgttctagca gcctcacaaa aaaatatact a 171

<210> 18811
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-F5-F1A

<400> 18811

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 cccccagccc tgctgtacgc caggaccacg gcttcaatcc cgatcagccg cctcttggcc 180
 ggctgcatct ccgacacctt gtcgatcagg gccagctcct cctccttggc gagcatggag 240
 cgcacacgaa tgcccgggtc gtctgcgagc ttggcgagga acgccatcat ctgcgtggtc 300
 gtcttcccaa ggccaagcac caccctgtct ggctgtctga agccctcacc gacagccctg 360
 ctcttctatc cgccagaaga ggccccggtc gtcttaaaaa gattgggtgt cagccccggc 420
 aggcccaagg gggtc 435

<210> 18812
 <211> 60
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB84-028-F5-F2A

<400> 18812

caaaacaaaa aaacagnaca agttatatat tcacaatacc gtatataccc taattcaaaa 60

<210> 18813

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-D5

<400> 18813

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ggggagggggg ccggctagtgc caaatgaagc agcttcagaa gatggctctc ctacaactct 120

tgttggaaaa tattgttctc ttattactgc cgctgctcgc tctgaccttt tcttgctgcg 180

acgcggcaac cctgaagctg caccgccacc acgcggacgg cggcctcagc ctccagccgcc 240

gggagctgct gcaccgcatg gccgcgcgca gcaaggcccg cgccgcgcgg ctgctctcgg 300

cctcggggag cgcccgcgta gaccggggga cttacgccaa cggcggtccc g 351

<210> 18814

<211> 211

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E6

<400> 18814

acggtcagcc acagcagtat acattgcacg cagctagctt ggaccagcag cagctgtggt 60

catggcggcc tccatggatc gcctcgtcag ctctggcggt ggccgctcat ggctgcggc 120

ccctcggccg tcgcgccggc atctcttcgc tgcgtcggc tccaggaaca agctcgtacc 180

gacgtgccct atcggattgg gggcggcctg a 211

<210> 18815

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-E9

<400> 18815

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 ggtatttgtgt ggtgtgtgtg agagagagag aaacagagtt cttcagtttg ctatctctct 120
 ctgcatgttt ggcgtcagtc tttgtgtctca tgtacgtacg tgtgtctacc tgcattgttg 180
 ttgatccgat tgcattctgct gtaaccatat attaattggc ccacgatgat atgatttgat 240
 actatatata tact 254

<210> 18816
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-F5

<400> 18816

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 gaaggtggac acggaccggt gggagttcgc gcacgagtcg ttctgcggg gccaggcgcg 120
 cctgctgccg ctggtcgtgc gcaagaggaa gaaggcgggc gccggcgccg gcgcccggcg 180
 ccgggagctg tgcgaggccg gggaggaggt gcgcccggacc atccgggccc tgcagcgcc 240
 gcgggagcag cagcgcgggg tggaggacga gctgcgggccc atggaccgcc gcctgcgcgc 300
 cgccgagagc cgcccgcccc ag 322

<210> 18817
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-028-Q1-E1-H8

<400> 18817

acgggatatt gctctggagg aattggcccc caccatcct attaggcttt ggctggtgct 60
 gaacttctca actcgctga ccatgcgtcc atgcttgacg tctcgccaaa taggtttgat 120
 ttttgcaccc attacatgga ctgtgtagtg ttattttctt ctttttttgc aatccttatg 180
 atccgaatgt gagctctgtg aaaaatatga actaaggcta ttatgcattt cacagttcag 240
 acagctgtta tgaaataacc tggctttagc tataacttgt gactagtgcac acatattact 300
 attttttaca cactagtgtg aacaactaaa ggtctgtttg gttgggctgt ggctgtgg 358

<210> 18818
 <211> 219
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-D7

 <400> 18818

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 cgctgcatta aaatttatga ttattatttc tgaaactccg ataatgtaat cactaatgat 120
 acttattaaa tttgtggtat tatgttttat tgtaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaa 219

<210> 18819
 <211> 347
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-029-Q1-E1-F2

 <400> 18819

 agatggaaga tcacaataaa ggacagtgac tgcagcatgc tctacatctt gcaagaacag 60
 tgactgcagc atgctctaca tcttgcaaaa ctgttcttga cagatggaag atcacaataa 120
 aggacaacca agggaaactt atgagaccac caaaatttat gaacaactac tttggggttg 180
 gctgtgatgc aaaggttgcc ttagatatac acaacctgag ggaagagaac cctgaacggt 240
 tttatagcca gtttatgaac aagggtgctgt atgcaagaga gggagcaaag aacataatgg 300
 ataacacatt tgattgtttt ccttgggatg tcaagcttga gatagat 347

<210> 18820
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB84-030-Q1-E1-A9

 <400> 18820

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 gccagagccg tgccagaatt gtgcacgtat tctcgttctt attcgagctt ctacagcgat 120

tttttttctc acttccccga tgcaagcagc atattttgca aagcagtcag cacatgattc 180
 gctccaatcc gaccgatcga tcccctacgt tacttacacc gctttccata gattgtatta 240
 cagctgcaag ctgtgaagct gcagggcgat gcgtttccgc cggatccatc agtacggcat 300
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 caccgctcgc agcagctct 379

<210> 18821
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-B6

<400> 18821

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 ggctactagg agagcttgct tccagcggag acgagcacag gggcctcatc gcttatgcgt 120
 gctggctcgt ctacatgctc ttctcattgc tcgtcatctt ctgataccgt ttatggcatg 180
 gaagactatg ttcgcaattt gtttagcgga tgatgtggac agtggactgc caccagtcac 240
 tggagtgttt tgctatgttg ttgcagaact acatactatc tggccacttt ggggaattgt 300
 tctgtagtga tcgactagtt ccagtgggca tgggtgggtgt tcggtgtaaa tcttagtaga 360
 aataagagga aatcgaggtc cataaacagc aaatgtgcag tcatttggtt tt 412

<210> 18822
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-C4

<400> 18822

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 tcagatggaa acaaaaagat cttcatttgt gtaaataaat atctcactgc ccatccattg 120
 ggacacgggt cggtggctca aagaagaata gtgtgatagt atagtggact ctaaaaaaaaa 180
 aacacgcact gacaaa 196

<210> 18823
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D2

<400> 18823

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aagttcgtgt gccgccgcgc caagaacgcg ggatacgagg actacaagtt cccggacccc 120
atccccggagt tcgccgagca ggagacgagc aagttcaggg agcacatggc gtggcggctg 180
gagcagaaga aagaggacta cttcggggac catgtcgagg agatcgttga cgtctgcacc 240
gagaŧcatgg ggaŧattcct ggagaacgat taccgtggac cagggacgct cctggttcac 300
ccgttcctgg acatgaaagg cgagatcaag gagagggggc tccccggcgc acctcaaggg 360
gcacggggcg cgatagcatg ggccgaaaag 390

<210> 18824
<211> 263
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-D9

<400> 18824

gaaggaaaca ccgccgcgc cgcgcttcc attccagtac tcgcggagga aaggaacacc 60
agccagcgcc atggtcgcgt cgacgaccgc cgccgcggtg ctgtccccgc cgtccgtggc 120
cgggcttcgc ctggcgccgt cttccccggc gcgcgtggcg ttccgcgcgg cgcgggcgcc 180
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<210> 18825
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-030-Q1-E1-G3

<400> 18825

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<210> 18826
<211> 499
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB84-028-F5-F1B

<400> 18826

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gcctggcccc gcaagaacg 499

<210> 18827
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB84-028-F5-R1B

<400> 18827

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<210> 18828

<211> 351

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-022-Q1-E1-D1.F2

<400> 18828

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<210> 18829

<211> 594

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-022-Q1-E1-D1.R2

<400> 18829

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<210> 18830

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB84-023-Q1-E1-D6.F2

<400> 18830

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cgggcgttgc gtgtgccggg tacacttgcg cttgatgtgc gtgtcatatt ttgatctttg 240

cgtgcgcccc ggagtgcccg gatgagcgac cacctgcccg acgccgccgc atggaaaatg 300

attgatcggg aggagggaaa taatggccgc ggcggcggcg aactgaactg atgcttactg 360

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<210> 18831

<211> 680

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB84-023-Q1-E1-D6.R2

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gttcgcgcgc gccgcgcgcg cgcggtaccc cattannntt cctcnnnct cctcnnnact 240

caatcanntt ttcnncatc gtcggcccgg cccccgtcgc gccgcccagg tggtnnngct 300

catcgnnccg ggcanngctg ccggnnggcg cacggaccaa cgagatnnca agaactactg 360

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accgnnnacc gcccnngctg agnncgccgc cnnngccgcc cttcnnaccg ccggcncnnt 480

cccgtcgcgc cgcgcccgc cnngccacc gtnngctgtt cgcgcgcgc cgnngcgcgc 540

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gccgccccaa gacgccggcg 680